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Operation and Maintenance, Air Force  
Volume II

# DEPARTMENT OF THE AIR FORCE

JUSTIFICATION OF ESTIMATES FOR FISCAL YEARS 1990/1991  
BIENNIAL BUDGET ESTIMATES  
SUBMITTED TO CONGRESS JANUARY 1989

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OPERATION AND MAINTENANCE, AIR FORCE JUSTIFICATION BOOK  
VOLUME II - DATA BOOK FOR FY 1990/1991

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OPERATION AND MAINTENANCE, AIR FORCE JUSTIFICATION BOOK  
VOLUME 11 - DATA BOOK FOR FY 1990/1991

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OPERATION AND MAINTENANCE - AIR FORCE  
SUMMARY OF PRICE AND PROGRAM CHANGES

FY 1989

(\$ in Thousands)

	FY88 PROGRAM	FOR OUR IMPACT	PRICE CHANGE PERCENT	PRICE CHANGE IMPACT	PROGRAM CHANGE	FY 89 PROGRAM
APPN 30 OPERATION AND MAINTENANCE - AF						
CIVILIAN PERSONNEL COMPENSATION						
101 EXECUTIVE GENERAL AND SPECIAL SCHEDULES	3311819	0	5.5%	182070	40476	3534365
103 WAGE BOARD	819414	0	3.9%	31662	15903	866979
104 FOREIGN NATIONAL DIRECT HIRE (FNDH)	78418	0	8.1%	6384	-13295	71507
105 SEPARATION LIABILITY (FNDH)	4625	0	0.0%	0	-249	4376
110 UNEMPLOYMENT COMP	11379	0	-1.1%	-120	0	11259
199 ** TOTAL CIVILIAN PERSONNEL COMPENSATION **	4225655	0	5.2%	219996	42835	4488486
TRAVEL						
301 PER DIEM	310280	0	0.0%	0	-55255	255025
302 OTHER TRAVEL COSTS	205390	0	3.8%	7778	13721	226889
303 MAC PASSENGER	34240	0	6.1%	2101	-15163	21178
307 LEASED VEHICLES	24330	0	3.7%	909	-5465	19774
399 **TOTAL TRAVEL **	574240	0	1.9%	10788	-62162	522866
STOCK FUND PURCHASES SUPPLIES/MATERIALS						
401 DFSC FUEL	1590261	0	0.0%	0	95708	1685969
402 SERVICE STOCK FUND FUEL	32304	0	18.8%	6057	-10679	27682
411 ARMY MANAGED SUPPLIES/MATERIALS	26880	0	0.7%	192	4136	31208
412 NAVY MANAGED SUPPLIES/MATERIALS	17902	0	-13.2%	-2365	5252	20789
414 AIR FORCE MANAGED SUPPLIES/MATERIALS	309465	0	5.7%	17630	36663	363758
415 DLA MANAGED SUPPLIES/MATERIALS	463768	0	2.6%	12036	50363	526167
416 GSA MANAGED SUPPLIES/MATERIALS	98596	0	4.0%	3936	11936	114468
417 LOCALLY PROCURED STOCK FUND SUPPL/MAT	620506	0	3.8%	23579	59052	703137
499 ** TOTAL STOCK FUND SUPPLIES/MATERIALS **	3159682	0	1.9%	61065	252431	3473178

OPERATION AND MAINTENANCE - AIR FORCE  
SUMMARY OF PRICE AND PROGRAM CHANGES

FY 1989

(\$ in Thousands)

	FY88 PROGRAM	FOR OUR IMPACT	PRICE CHANGE PERCENT	PRICE CHANGE IMPACT	PROGRAM CHANGE	FY 89 PROGRAM
STOCK FUND PURCHASES EQUIPMENT						
502 ARMY STOCK FUND EQUIPMENT	5786	0	0.7%	38	-908	4916
503 NAVY STOCK FUND EQUIPMENT	3855	0	-13.3%	-511	-76	3268
506 DLA STOCK FUND EQUIPMENT	79026	0	2.6%	2043	1003	82072
507 GSA STOCK FUND EQUIPMENT	126557	0	4.0%	5120	-4354	127323
599 ** TOTAL STOCK FUND EQUIPMENT **	215224	0	3.1%	6690	-4335	217579
INDUSTRIAL FUND PURCHASES (EX. TRAN SP)						
651 TRAINING	182102	0	21.7%	39516	20965	242583
652 OPERATION & MEDICAL SUPPORT	14542	0	3.8%	553	903	15998
653 OTHER MAC PURCHASES	23928	0	3.8%	909	6896	31733
661 DEPOT MAINTENANCE - ORGANIC	1563711	0	3.7%	57858	125764	1747333
662 DEPOT MAINTENANCE - CONTRACT (AF)	860495	0	3.8%	32698	93784	986977
663 LAUNDRY & DRY CLEANING (IF)	3139	0	-9.7%	-303	-1200	1636
664 UTILITIES (IF) SARPMA	32478	0	0.2%	66	29	32573
665 PUBLIC WORKS - SARPMA	78385	0	-0.5%	-391	-22215	55779
666 AEROSPACE MAINT & REGEN CTR(AFARC)	9308	0	0.1%	9	2277	11594
671 COMMUNICATION SERVICES(DEFENSE)	422707	0	5.0%	21123	10115	453945
691 IF PASS THROUGH	13000	0	0.0%	-15300	0	-2300
699 ** TOTAL AF INDUSTRIAL FUND PURCHASES **	3203795	0	4.3%	136738	237318	3577851
TRANSPORTATION						
701 MAC CARGO (IF)	124172	0	16.0%	19868	-9391	134649
702 MAC SAAM (IF)	77577	0	5.8%	4501	-5771	76307
711 MSC CARGO (IF)	83602	0	61.0%	50998	-23775	110825
721 MTMC (PORT HANDLING-IF)	22200	0	7.9%	1753	-422	23531
731 COMMERCIAL AIR	75636	0	3.8%	2872	-8321	70187
751 COMMERCIAL LAND	115515	0	3.8%	4377	18657	138549
761 OTHER TRANSPORTATION	66462	0	3.8%	2525	6078	75065
799 ** TOTAL TRANSPORTATION **	565164	0	15.4%	86894	-22945	629113

OPERATION AND MAINTENANCE - AIR FORCE  
SUMMARY OF PRICE AND PROGRAM CHANGES  
FY 1989  
(\$ in Thousands)

	FY88 PROGRAM	FOR_QJR IMPACT	PRICE CHANGE PERCENT	PRICE CHANGE IMPACT	PROGRAM CHANGE	FY 89 PROGRAM
OTHER PURCHASES						
901 FOREIGN NATIONAL INDIRECT HIRE (FNIDH)	237979	0	7.0%	16669	7579	262227
902 SEPARATION LIABILITY (FNH)	8067	0	3.0%	238	220	8525
912 RENTAL PAYMENTS TO GSA (SLUE)	23533	0	3.8%	894	-180	24247
913 PURCHASED UTILITIES (NON-IF)	413394	0	3.8%	15706	7813	436913
914 PURCHASED COMMUNICATIONS (NON-IF)	137329	0	3.8%	5219	-8448	134100
915 RENTS (NON-GSA)	96046	0	3.8%	3625	11327	110998
916 DISABILITY COMPENSATION	77433	0	0.0%	0	9167	86600
917 POSTAL SERVICES (U.S.P.S.)	34005	0	0.0%	0	461	34466
920 SUPPLIES & MATERIALS (NON-SF)	274344	0	3.8%	10407	-33167	251584
921 PRINTING & REPRODUCTION	43781	0	3.8%	1658	5744	51183
922 EQUIPMENT MAINTENANCE BY CONTRACT	568715	0	3.8%	21597	118423	708735
923 FACILITY MAINTENANCE BY CONTRACT	825298	0	3.8%	31360	-56938	799720
925 EQUIPMENT (NON-SF)	111724	0	3.8%	4228	-71330	44622
926 OTHER OVERSEAS PURCHASES	68699	0	11.2%	7694	10053	86446
927 AIR DEFENSE CONTRACTS & SPACE SUPPORT (AF)	2895	0	3.8%	110	108218	111223
930 OTHER DEPOT MAINT (NON-IF)	819057	0	3.8%	31124	14855	865036
931 CONTRACT CONSULTANTS	2006	0	3.8%	76	1307	3389
932 CONTRACT STUDIES & ANALYSIS	154733	0	3.8%	5880	-2192	158421
933 CONTRACT PROFESSIONAL & MGMT SVC	13095	0	3.8%	498	-3236	10357
934 CONTRACT ENG TECH+SVC	43517	0	3.8%	1654	-1062	44109
989 OTHER CONTRACTS	4041418	0	4.3%	173797	417051	4632266
991 FOREIGN CURRENCY VARIANCE	203852	-97652	0.0%	0	0	106200
998 OTHER COSTS	168207	0	3.8%	6386	-36915	137678
999 ** TOTAL OTHER PURCHASES **	8369127	-97652	4.0%	338820	498750	9109045
9999 *** TOTAL O&M PROGRAM ***	20312887	-97652	4.2%	860991	941892	22018118

OPERATION AND MAINTENANCE - AIR FORCE  
SUMMARY OF PRICE AND PROGRAM CHANGES  
FY 1990  
(\$ in Thousands)

	FY 89 PROGRAM	FOR QJR IMPACT	PRICE CHANGE PERCENT	PRICE CHANGE IMPACT	PROGRAM CHANGE	FY 90 PROGRAM
APPN 30 OPERATION AND MAINTENANCE - AF						
CIVILIAN PERSONNEL COMPENSATION						
101 EXECUTIVE GENERAL AND SPECIAL SCHEDULES	3534365	0	3.4%	119056	122454	3775875
103 WAGE BOARD	866979	0	3.9%	33644	28134	928757
104 FOREIGN NATIONAL DIRECT HIRE (FNDH)	71507	3573	2.1%	1473	2789	79342
105 SEPARATION LIABILITY (FNDH)	4376	30	2.4%	105	526	5037
110 UNEMPLOYMENT COMP	11259	0	5.5%	623	0	11882
199 ** TOTAL CIVILIAN PERSONNEL COMPENSATION **	4488486	3603	3.5%	154901	153903	4800893
TRAVEL						
301 PER DIEM	255025	22	0.0%	0	27022	282069
302 OTHER TRAVEL COSTS	226889	2028	3.4%	7693	-17292	219318
303 MAC PASSENGER	21178	0	3.8%	807	-378	21607
307 LEASED VEHICLES	19774	443	3.4%	664	3334	24215
399 **TOTAL TRAVEL **	522866	2493	1.8%	9164	12686	547209
STOCK FUND PURCHASES SUPPLIES/MATERIALS						
401 DFSC FUEL	1685969	15	-9.9%	-167386	-69562	1449036
402 SERVICE STOCK FUND FUEL	27682	0	-23.8%	-6588	-6973	14121
411 ARMY MANAGED SUPPLIES/MATERIALS	31208	0	4.5%	1390	-835	31763
412 NAVY MANAGED SUPPLIES/MATERIALS	20789	0	-2.0%	-406	765	21148
414 AIR FORCE MANAGED SUPPLIES/MATERIALS	363758	0	6.3%	22914	20662	407334
415 DLA MANAGED SUPPLIES/MATERIALS	526167	0	1.8%	9453	3893	539513
416 GSA MANAGED SUPPLIES/MATERIALS	114468	2027	3.4%	3874	-3892	116477
417 LOCALLY PROCURED STOCK FUND SUPPL/MAT	703137	0	3.4%	24250	-5533	721854
499 ** TOTAL STOCK FUND SUPPLIES/MATERIALS **	3473178	2042	-3.2%	-112499	-61475	3301246

OPERATION AND MAINTENANCE - AIR FORCE  
SUMMARY OF PRICE AND PROGRAM CHANGES

FY 1990

(\$ in Thousands)

	FY 89 PROGRAM	FOR OUR IMPACT	PRICE CHANGE PERCENT	PRICE CHANGE IMPACT	PROGRAM CHANGE	FY 90 PROGRAM
STOCK FUND PURCHASES EQUIPMENT						
502 ARMY STOCK FUND EQUIPMENT	4916	0	4.5%	219	531	5666
503 NAVY STOCK FUND EQUIPMENT	3268	0	-2.0%	-64	565	3769
506 DLA STOCK FUND EQUIPMENT	82072	0	1.8%	1464	7917	91453
507 GSA STOCK FUND EQUIPMENT	127323	292	3.4%	4392	10609	142616
599 ** TOTAL STOCK FUND EQUIPMENT **	217579	292	2.8%	6011	19622	243504
INDUSTRIAL FUND PURCHASES (EX. TRAN SP)						
651 TRAINING	242583	0	2.9%	7036	-1342	248277
652 OPERATION & MEDICAL SUPPORT	15998	0	3.4%	544	-1026	15516
653 OTHER MAC PURCHASES	31733	0	3.4%	1079	1825	34637
661 DEPOT MAINTENANCE - ORGANIC	1747333	0	5.4%	93656	3369	1844358
662 DEPOT MAINTENANCE - CONTRACT (AF)	986977	0	3.6%	35532	-58083	964426
663 LAUNDRY & DRY CLEANING (IF)	1636	0	3.7%	61	1327	3024
664 UTILITIES (IF) SARPMA	32573	0	3.5%	1139	-33712	0
665 PUBLIC WORKS - SARPMA	55779	0	3.5%	1952	-57731	0
666 AEROSPACE MAINT & REGEN CTR(AFARC)	11594	0	9.0%	1043	11	12648
671 COMMUNICATION SERVICES(DEFENSE)	453945	3877	3.6%	16340	4056	478218
691 IF PASS THROUGH	-2300	0	0.0%	125043	0	122743
699 ** TOTAL AF INDUSTRIAL FUND PURCHASES **	3577851	3877	7.9%	283425	-141306	3723847
TRANSPORTATION						
701 MAC CARGO (IF)	134649	0	-0.7%	-943	53	133759
702 MAC SAAM (IF)	76307	0	-0.7%	-532	19055	94830
711 MSC CARGO (IF)	110825	0	9.0%	9973	6430	127228
721 MTMC (PORT HANDLING-IF)	23531	841	11.8%	2775	-295	26852
731 COMMERICAL AIR	70187	1894	3.4%	2387	-1229	73239
751 COMMERICAL LAND	138549	4137	3.4%	4706	-14801	132591
761 OTHER TRANSPORTATION	75065	67	3.4%	2552	51243	128927
799 ** TOTAL TRANSPORTATION **	629113	6939	3.3%	20918	60456	717426



OPERATION AND MAINTENANCE - AIR FORCE  
SUMMARY OF PRICE AND PROGRAM CHANGES

FY 1990

(\$ in Thousands)

	FY 89 PROGRAM	FOR_OUR IMPACT	PRICE CHANGE PERCENT	PRICE CHANGE IMPACT	PROGRAM CHANGE	FY 90 PROGRAM
OTHER PURCHASES						
901 FOREIGN NATIONAL INDIRECT HIRE (FNIH)	262227	58913	2.0%	5241	12095	338476
902 SEPARATION LIABILITY (FNIH)	8525	169	2.0%	169	-138	8725
912 RENTAL PAYMENTS TO GSA (SLUE)	24247	0	3.4%	825	-27	25045
913 PURCHASED UTILITIES (NON-IF)	436913	18990	3.4%	14858	28706	499467
914 PURCHASED COMMUNICATIONS (NON-IF)	134100	2988	3.4%	4559	19544	161191
915 RENTS (NON-GSA)	110998	-492	3.4%	3767	-5508	108765
916 DISABILITY COMPENSATION	86600	0	0.0%	0	-12997	73603
917 POSTAL SERVICES (U.S.P.S.)	34466	0	0.0%	0	3986	38452
920 SUPPLIES & MATERIALS (NON-SF)	251584	492	3.4%	8535	-3	260608
921 PRINTING & REPRODUCTION	51183	135	3.4%	1740	-4176	48882
922 EQUIPMENT MAINTENANCE BY CONTRACT	708735	9983	3.4%	24092	34858	777668
923 FACILITY MAINTENANCE BY CONTRACT	799720	21983	3.4%	27188	42555	891446
925 EQUIPMENT (NON-SF)	44622	129	3.4%	1512	6109	52372
926 OTHER OVERSEAS PURCHASES	86446	0	11.2%	9682	17793	113921
927 AIR DEFENSE CONTRACTS & SPACE SUPPORT (AF)	111223	11217	3.4%	3782	-104741	21481
930 OTHER DEPOT MAINT (NON-IF)	865036	0	3.4%	29411	-39011	855436
931 CONTRACT CONSULTANTS	3389	0	3.4%	115	-154	3350
932 CONTRACT STUDIES & ANALYSIS	158421	0	3.4%	5386	476	164283
933 CONTRACT PROFESSIONAL & MGMT SVC	10357	0	3.4%	352	3681	14390
934 CONTRACT ENG TECH+SVC	44109	0	3.4%	1500	-7104	38505
989 OTHER CONTRACTS	4632266	11043	3.9%	182564	481375	5307248
991 FOREIGN CURRENCY VARIANCE	106200	-106200	0.0%	0	0	0
998 OTHER COSTS	137678	1104	3.4%	4676	-15697	127761
999 ** TOTAL OTHER PURCHASES **	9109045	30454	3.6%	329954	461622	9931075
9999 *** TOTAL O&M PROGRAM ***	22018118	49700	3.1%	691874	505508	23265200

OPERATION AND MAINTENANCE - AIR FORCE  
SUMMARY OF PRICE AND PROGRAM CHANGES

FY 1991

(\$ in Thousands)

	FY90 PROGRAM	FOR OUR IMPACT	PRICE CHANGE PERCENT	PRICE CHANGE IMPACT	PROGRAM CHANGE	FY 91 PROGRAM
APPN 30 OPERATION AND MAINTENANCE - AF						
CIVILIAN PERSONNEL COMPENSATION						
101 EXECUTIVE GENERAL AND SPECIAL SCHEDULES	3775875	0	3.0%	113385	30356	3919616
103 WAGE BOARD	928757	0	2.9%	27158	6287	962202
104 FOREIGN NATIONAL DIRECT HIRE (FNDR)	79342	0	3.0%	2376	2705	84423
105 SEPARATION LIABILITY (FNDR)	5037	0	2.8%	140	685	5862
110 UNEMPLOYMENT COMP	11882	0	2.0%	234	0	12116
199 ** TOTAL CIVILIAN PERSONNEL COMPENSATION **	4800893	0	3.0%	143293	40033	4984219
TRAVEL						
301 PER DIEM	282069	0	0.0%	0	12213	294282
302 OTHER TRAVEL COSTS	219318	0	3.0%	6550	-787	225081
303 MAC PASSENGER	21607	0	3.0%	646	-991	21262
307 LEASED VEHICLES	24215	0	3.0%	719	-429	24505
399 **TOTAL TRAVEL **	547209	0	1.4%	7915	10006	565130
STOCK FUND PURCHASES SUPPLIES/MATERIALS						
401 DFSC FUEL	1449036	0	5.1%	73207	-16116	1506127
402 SERVICE STOCK FUND FUEL	14121	0	5.1%	719	613	15453
411 ARMY MANAGED SUPPLIES/MATERIALS	31763	0	-7.1%	-2241	3556	33078
412 NAVY MANAGED SUPPLIES/MATERIALS	21148	0	2.0%	413	482	22043
414 AIR FORCE MANAGED SUPPLIES/MATERIALS	407334	0	-0.1%	-394	-37779	369161
415 DLA MANAGED SUPPLIES/MATERIALS	539513	0	-0.9%	-4819	26102	560796
416 GSA MANAGED SUPPLIES/MATERIALS	116477	0	3.0%	3475	1380	121332
417 LOCALLY PROCURED STOCK FUND SUPPL/MAT	721854	0	3.0%	22016	6508	750378
499 ** TOTAL STOCK FUND SUPPLIES/MATERIALS **	3301246	0	2.8%	92376	-15254	3378368

OPERATION AND MAINTENANCE - AIR FORCE  
SUMMARY OF PRICE AND PROGRAM CHANGES  
FY 1991  
(\$ in Thousands)

	FY90 PROGRAM	FOR OUR IMPACT	PRICE CHANGE PERCENT	PRICE CHANGE IMPACT	PROGRAM CHANGE	FY 91 PROGRAM
STOCK FUND PURCHASES EQUIPMENT						
502 ARMY STOCK FUND EQUIPMENT	5666	0	-7.1%	-400	766	6032
503 NAVY STOCK FUND EQUIPMENT	3769	0	2.0%	74	164	4007
506 DLA STOCK FUND EQUIPMENT	91453	0	-0.9%	-807	559	91205
507 GSA STOCK FUND EQUIPMENT	142616	0	3.0%	4347	-3360	143603
599 ** TOTAL STOCK FUND EQUIPMENT **	243504	0	1.3%	3214	-1871	244847
INDUSTRIAL FUND PURCHASES (EX. TRAN SP)						
651 TRAINING	248277	0	3.7%	9187	-5246	252218
652 OPERATION & MEDICAL SUPPORT	15516	0	3.0%	465	-122	15859
653 OTHER MAC PURCHASES	34637	0	3.0%	1039	103	35779
661 DEPOT MAINTENANCE - ORGANIC	1844358	0	2.9%	52747	-97647	1799458
662 DEPOT MAINTENANCE - CONTRACT (AF)	964426	0	3.3%	31828	-60254	936000
663 LAUNDRY & DRY CLEANING (IF)	3024	0	2.4%	72	42	3138
666 AEROSPACE MAINT & REGEN CTR(AFARC)	12648	0	1.2%	152	-29	12771
671 COMMUNICATION SERVICES(DEFENSE)	478218	0	3.4%	16255	-4290	490183
691 IF PASS THROUGH	122743	0	0.0%	-122743	0	0
699 ** TOTAL AF INDUSTRIAL FUND PURCHASES **	3723847	0	-0.3%	-10998	-167443	3545406
TRANSPORTATION						
701 MAC CARGO (IF)	133759	0	4.6%	6153	-300	139612
702 MAC SAAM (IF)	94830	0	2.2%	2083	54386	151299
711 MSC CARGO (IF)	127228	0	6.6%	8346	-21322	114252
721 MTMC (PORT HANDLING-IF)	26852	0	3.1%	832	-1946	25738
731 COMMERCIAL AIR	73239	0	3.0%	2197	6767	82203
751 COMMERCIAL LAND	132591	0	3.0%	3970	-4089	132472
761 OTHER TRANSPORTATION	128927	0	3.0%	3866	4966	137759
799 ** TOTAL TRANSPORTATION **	717426	0	3.8%	27447	38462	783335

OPERATION AND MAINTENANCE - AIR FORCE  
SUMMARY OF PRICE AND PROGRAM CHANGES

FY 1991

(\$ in Thousands)

	FY90 PROGRAM	FOR_CUR IMPACT	PRICE CHANGE PERCENT	PRICE CHANGE IMPACT	PROGRAM CHANGE	FY 91 PROGRAM
OTHER PURCHASES						
901 FOREIGN NATIONAL INDIRECT HIRE (FNIDH)	338476	0	3.0%	10159	-4708	343927
902 SEPARATION LIABILITY (FNH)	8725	0	3.0%	263	-10	8883
912 RENTAL PAYMENTS TO GSA (SLUE)	25045	0	3.0%	752	25	25822
913 PURCHASED UTILITIES (NON-IF)	499467	0	3.0%	14982	3309	517758
914 PURCHASED COMMUNICATIONS (NON-IF)	161191	0	3.0%	4835	2709	168735
915 RENTS (NON-GSA)	108765	0	3.0%	3258	3664	115687
916 DISABILITY COMPENSATION	73603	0	0.0%	0	838	74441
917 POSTAL SERVICES (U.S.P.S.)	38452	0	0.0%	0	685	39137
920 SUPPLIES & MATERIALS (NON-SF)	260608	0	3.0%	7800	913	269321
921 PRINTING & REPRODUCTION	48882	0	3.0%	1462	-1438	48846
922 EQUIPMENT MAINTENANCE BY CONTRACT	777668	0	3.0%	23316	20715	821699
923 FACILITY MAINTENANCE BY CONTRACT	891446	0	3.0%	26745	16375	934566
925 EQUIPMENT (NON-SF)	52372	0	3.0%	1565	-4267	49670
926 OTHER OVERSEAS PURCHASES	113921	0	11.2%	12759	4090	130770
927 AIR DEFENSE CONTRACTS & SPACE SUPPORT (AF)	21481	0	3.0%	645	192	22318
930 OTHER DEPOT MAINT (NON-IF)	855436	0	3.0%	25664	3781	884881
931 CONTRACT CONSULTANTS	3350	0	3.0%	101	-104	3347
932 CONTRACT STUDIES & ANALYSIS	164283	0	3.0%	4928	-6869	162342
933 CONTRACT PROFESSIONAL & MGMT SVC	14390	0	3.0%	432	-1736	13086
934 CONTRACT ENG TECH+SVC	38505	0	3.0%	1155	-7300	32360
989 OTHER CONTRACTS	5307248	0	3.6%	192499	71467	5571214
998 OTHER COSTS	127761	0	3.0%	3839	-2115	129485
999 ** TOTAL OTHER PURCHASES **	9931075	0	3.4%	337159	100061	10368295
9999 *** TOTAL O&M PROGRAM ***	23265200	0	2.6%	600406	3994	23869600

**Operation and Maintenance  
Summary of FY 1990 & FY 1991 Increases and Decreases**

Appropriation: Operation & Maintenance, Air Force	(\$000s)
1. FY 1989 President's Budget	\$21,950,000
2. Congressional Adjustment	-243,447
3. FY 1989 Appropriation Enacted	\$21,706,553
4. Proposed Supplementals:	0
a. Pay Supplemental	0
b. Program Supplemental	0
5. Price Growth	201,466
6. Program Increases	86,068
7. Program Decreases	-138,700
8. Transfers In	176,728
9. Transfers Out	-13,997
10. Revised FY 1989 Estimate	\$22,018,118
11. Transfers In	324,053
12. Transfers Out	-541,452
13. Increases	
a. Annualization of FY 1989 Pay Raises	56,451
b. Annualization of New FY 1989 Program	0

Operation and Maintenance  
Summary of FY 1990 & FY 1991 Increases and Decreases

Appropriation: Operation & Maintenance, Air Force	(\$000s)
c. One-time FY 1990 Costs	
Aircraft Operations	1,138
Ships Operations	0
Depot Maintenance/Modernization	0
Land Forces Operations	0
Supply Operations	0
Training	0
Real Property Maintenance	0
Second Destination Transportation	0
Other	1,045
d. Program Growth in FY 1990	
Aircraft Operations	206,510
Ships Operations	0
Depot Maintenance/Modernization	55,051
Land Forces Operations	0
Supply Operations	2,239
Training	50,241
Real Property Maintenance	123,077
Second Destination Transportation	0
Other:	
Peacekeeper Squadrons	42,712
Minuteman Squadrons	7,839
War Planning ADP-SAC	15,185
Over-the-Horizon Radars	27,142
North Atlantic Defense System	14,430
Caribbean Basin Radar Network	3,928
Defense Support System	6,544
SPACETRACK	6,647
Rapier	4,356
Chemical Biological Defense Program	15,194

**Operation and Maintenance**  
**Summary of FY 1990 & FY 1991 Increases and Decreases**

Appropriation: Operation & Maintenance, Air Force	(\$000s)
Electronic Combat Support	3,982
WRM-EQ/Secondary Items	12,306
Flying Hour Costs	3,595
AWACS Sustaining Engineering	6,982
Tactical Airborne Control System	4,718
Tactical Air Control System	4,180
Civilian Workyear Utilization Rate	73,906
Special Tactical Unit Detachments	6,045
Tactical Air Intelligence System Activities	3,706
Communications	22,962
Operation and Maintenance for Classified Program	114,230
WAWOCS	13,905
Engineering and Installation	4,830
Joint Deployment System	4,412
Cargo Movement Operations System	5,839
Core Automated Maintenance System	8,300
Combat Ammunition System	9,228
DSCS Satellite Maintenance	3,125
BIDDS Cable Installations	17,584
Installation of MILSTAR Terminals	5,233
Satellite Terminal Installation	5,411
CLS for Aerial Targets	6,273
DCS Mediterranean Improvement Program	15,103
Dedicated Leased Long Lines	4,598
Service-wide Activities	68,532
Satellite Control Facility	3,812
Consolidated Space Test Center	75,733
Space Boosters	12,559
Space Shuttle Operations	16,700
Communications Security and Intel Activities	63,295
C-141 Aircrew Training System	7,018

Operation and Maintenance  
Summary of FY 1990 & FY 1991 Increases and Decreases

Appropriation: Operation & Maintenance, Air Force	(\$000s)
C-130 Systems Engineering	3,562
Contractual Services	7,241
Operational Support Airlift Program	4,861
Environmental Compliance	6,420
Contract Conversions	3,984
Equipment	2,350
Supplies	6,932
Base Operations	20,935
Range Support Operations	14,883
Transportation	8,610
Managed Health Care Initiatives	10,289
CHAMPUS	76,259
Restore/Refurbish Office Space	4,365
Sustaining Engineering	4,490
Other	42,070
<b>e. New FY 1990 Program</b>	<b>184,988</b>
Aircraft Operations	0
Ships Operations	0
Depot Maintenance/Modernization	0
Land Forces Operations	0
Supply Operations	0
Training	0
Real Property Maintenance	0
Second Destination Transportation	0
Other:	
Environmental Compliance	3,550
Pacer Frontier	5,567
Other	54,554
<b>f. Inflation</b>	<b>685,244</b>



Operation and Maintenance  
Summary of FY 1990 & FY 1991 Increases and Decreases

Appropriation: Operation & Maintenance, Air Force ( \$000s)

14. Total Increases 2,398,985

15. Decreases

a. One-time FY 1990 Costs

Aircraft Operations	-23,585
Ships Operations	0
Depot Maintenance/Modernization	0
Land Forces Operations	0
Supply Operations	0
Training	0
Real Property Maintenance	0
Second Destination Transportation	0
Other	-12,788

b. Annualization of FY 1989 Program Decreases

Aircraft Operations	0
Ships Operations	0
Depot Maintenance/Modernization	0
Land Forces Operations	0
Supply Operations	0
Training	0
Real Property Maintenance	0
Second Destination Transportation	0
Other	0

c. Program Decreases in FY 1990

Aircraft Operations	-341,272
Ships Operations	0
Depot Maintenance/Modernization	-121,244
Land Forces Operations	0

Operation and Maintenance  
Summary of FY 1990 & FY 1991 Increases and Decreases

Appropriation: Operation & Maintenance, Air Force	(\$000s)
Supply Operations	0
Training	-14,155
Real Property Maintenance	-37,053
Second Destination Transportation	0
Other:	
Minuteman Squadrons	-19,181
Peacekeeper Squadrons	-7,011
Automated Command and Control Systems-ADP	-3,184
Reduced Force Structure	-6,740
Ballistic Missile TW/AA System	-5,495
DEW Radar Stations-Greenland	-15,765
North Atlantic Defense System	-4,585
SLBM Radar Warning System	-3,515
Deactivate San Miguel Radar	-4,821
F-15 Squadron Deactivation	-7,042
A-76 Contract Savings	-3,865
Ground Launched Cruise Missile Drawdown	-10,050
AWACS Support	-8,741
Management Headquarters	-9,745
Audiovisual	-4,251
Travel	-2,187
Audit (Project No. 71C052)	-8,556
Supplies	-2,878
Expedient Hardening-Air Base Operability	-6,827
Transportation	-23,150
DCS Contract Maintenance	-6,477
Satellite Control Facility	-75,238
Security Investigation Activities	-3,924
Space Shuttle	-80,736
Senior Citizen	-7,978
Civilian Workyear Reduction	-3,898
Civil Air Patrol	-1,700
SOF Modification	-5,720
Other	-41,147

**Operation and Maintenance  
Summary of FY 1990 & FY 1991 Increases and Decreases**

Appropriation: Operation & Maintenance, Air Force	(\$000s)
16. Total Decreases	-934,504
17. FY 1990 President's Budget	\$23,265,200
18. Transfers In	16,357
19. Transfers Out	0
20. Increases:	
a. Annualization of FY 1990 Pay Raises	29,104
b. Annualization of New FY 1990 Programs	0
c. One-time FY 1990 Costs	26
Aircraft Operations	0
Ships Operations	0
Depot Maintenance/Modernization	0
Land Forces Operations	0
Supply Operations	0
Training	0
Real Property Maintenance	0
Second Destination Transportation	0
Other	17,927
d. Program Growth in FY 1990	
Aircraft Operations	110,394
Ships Operations	0
Depot Maintenance/Modernization	19,177
Land Forces Operations	0
Supply Operations	0

Operation and Maintenance  
Summary of FY 1990 & FY 1991 Increases and Decreases

Appropriation: Operation & Maintenance, Air Force	(\$000s)
Training	
Real Property Maintenance	12,144
Second Destination Transportation	30,847
Other:	0
Peacekeeper Squadrons	17,388
Minuteman Squadrons	3,737
Communications	7,146
Minuteman Standby Power	13,367
Supplies/Equipment	10,618
Equipment Maintenance	2,728
Joint Surveillance System	9,498
Caribbean Basin Radar Network	10,117
North Atlantic Defense System	3,902
Over-the-Horizon Radar	32,063
North Warning System	3,822
SPACETRACK	3,248
F-16 Conversion	5,977
Space Defense Operations Center	4,679
Pacer Frontier	3,728
Tactical Intelligence	7,187
Tactical Telecommunications	6,356
Tactical Fighter Wing Move	72,733
Constant Demo 91	26,188
Wartime Host Nation Support	6,052
WWMCCS Information System	7,200
Engineering and Installation	4,063
DSCS Satellite Requirements	6,979
Satellite Terminal Installation	5,411
Satellite Control Facility	1,650
Service-wide Activities	9,467
Consolidated Space Operation Center	10,054

**Operation and Maintenance**  
**Summary of FY 1990 & FY 1991 Increases and Decreases**

Appropriation: Operation & Maintenance, Air Force	(\$000s)
Consolidated Space Test Center	6,146
Space Shuttle Operations	16,700
Communications Security and Intel Activities	33,976
CSTOL Logistics Support	9,200
CHAMPUS	46,433
Personnel Data System	1,758
NASA Support	1,193
Sustaining Engineering	9,775
Classified Program	5,124
Force Structure	4,031
Other	51,135
 e. New FY 1990 Program	
Aircraft Operations	322
Ships Operations	0
Depot Maintenance/Modernization	0
Land Forces Operations	0
Supply Operations	0
Training	0
Real Property Maintenance	0
Second Destination Transportation	0
Other	0
 f. Inflation	546,113
 21. Total Increases	1,246,883
22. Decreases:	
a. One-time FY 1991 Costs	
Aircraft Operations	-1,920
Ships Operations	0
Depot Maintenance/Modernization	0
Land Forces Operations	0

Operation and Maintenance  
Summary of FY 1990 & FY 1991 increases and Decreases

Appropriation: Operation & Maintenance, Air Force	(\$000s)
Supply Operations	0
Training	0
Real Property Maintenance	0
Second Destination Transportation	0
Other	-8,841
 b. Annualization of FY 1990 Program Decreases	
Aircraft Operations	0
Ships Operations	0
Depot Maintenance/Modernization	0
Land Forces Operations	0
Supply Operations	0
Training	0
Real Property Maintenance	0
Second Destination Transportation	0
Other	0
 c. Program Decreases in FY 1990	
Aircraft Operations	-129,044
Ships Operations	0
Depot Maintenance/Modernization	-167,747
Land Forces Operations	0
Supply Operations	-7,630
Training	-7,765
Real Property Maintenance	-20,560
Second Destination Transportation	0
Other:	
Minuteman Squadrons	-14,061
Peacekeeper Squadrons	-4,854
Air Launched Cruise Missile	-2,614
Management Headquarters	-2,318
War Planning ADP	-5,253
Audit (Project No. 71C052)	-5,250

Operation and Maintenance  
Summary of FY 1990 & FY 1991 Increases and Decreases

Appropriation: Operation & Maintenance, Air Force	(\$000s)
Cadin-Pinetree	-11,701
DRW Radar Stations	-9,588
DSP	-3,735
F-15	-8,095
Sondrestrom AB	-28,078
BOS	-15,556
Use of In-Theater Assets	-2,053
GLOM	-16,067
AWACS Sustaining Engineering	-7,232
Antiterrorism	-1,723
Tactical Improvement Program	-6,970
Workyear Reduction	-7,339
Information Management Automation Program	-12,311
Air Force Communications	-14,961
Economies from T-1 Bulk Leases	-6,068
Service-wide Activities	-21,874
Space Boosters	-2,890
Space Shuttle Operations	-4,756
Operational Support Airlift	-4,839
CSTOL Interim Support Contract	-1,911
Miscellaneous Logistics Support Activities	-6,615
Transportation	-22,098
Managed Health Care Initiatives	-20,970
Medical Equipment	-12,724
Payments to Veteran's Administration	-1,751
Headquarters System Replacement Program	-6,100
Equipment Maintenance-HSRP	-3,556
Training Film Production Contract	-1,459
Install Modernization Modifications	-2,984
Other	-14,978
23. Total Decreases	-658,840
24. FY 1991 President's Budget	\$23,869,600

AUDIOVISUAL PRODUCTION  
(Motion Media with Sound)

DOD COMPONENT	Air Force	FY 1988		FY 1989		FY 1990		FY 1991	
		(In-House)	(Contract)	(In-House)	(Contract)	(In-House)	(Contract)	(In-House)	(Contract)
<b>APPROPRIATE/FUNCTIONS</b>									
<u>Military Personnel</u>									
AV Production		\$6,855		\$6,457		\$6,435		\$6,767	
Motion Picture and Television with Sound									
<u>Operation &amp; Maintenance</u>									
AV Production		3,900	314	3,502	0	3,307	0	3,436	0
Motion Picture and Television with Sound									
<u>Other Procurement</u>									
AV Equipment		2,019		1,718		1,939		1,492	
TOTAL		12,774	314	11,677	0	11,681	0	11,695	0
<u>AV Production</u>									
Motion Picture and Television with Sound		10,755	314	9,959	0	9,742	0	10,203	0
AV Equipment		2,019		1,718		1,939		1,492	
<u>End Strength</u>									
<u>Military</u>									
Officer		19		19		19		19	
Enlisted		164		153		147		147	
Total		183		172		166		166	
<u>Civilian</u>		83		55		55		55	



AUDIOVISUAL PRODUCTION  
SUMMARY

DOD Component    Air Force

Audiovisual production is defined as the combining of sight and sound in motion media (film, tape or disc) according to a plan or script in order to convey a message.

Reductions are commensurate with the overall decline in the Air Force Visual Information program. The central Audiovisual Production Program, previously accomplished by the Government Owned Contractor Operated (GOCO) facility at Norton AFB, is eliminated in FY 1989. This contract had been largely unfunded since the mission was returned to the Air Force following disestablishment of the Defense Audiovisual Agency (DAVA) in 1985. The impact is that the Air Force Production Program has become decentralized, with local AF production activities assuming a portion of this workload.

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1990/FY 1991 PRESIDENT'S BUDGET  
FY 1988

	Full-Time Equivalent End Strength	Work Years	Compensation		Total Compensation	Average Compensation
			O.C. 11	O.C. 12		
SUMMARY						
-----						
Direct Hire Civilians, United States:						
Classified and administrative	149,309	150,663	4,179,382	719,997	4,899,379	32,519
Wage Board	84,001	83,989	2,301,282	387,456	2,688,738	32,013
Total United States	233,310	234,652	6,480,664	1,107,453	7,588,117	32,338
Direct Hire Foreign Nationals	7,810	7,700	60,150	21,015	81,165	10,541
Total Direct Hire	241,120	242,352	6,540,814	1,128,468	7,669,282	31,645
Disadvantaged Employment	0	1,223	8,947	673	9,620	7,866
Indirect Hire, Foreign Nationals	12,041	12,644	290,709	0	290,709	22,992
Foreign National Separation Liability Accrual				11,541	11,541	0
Benefits for Former Employees (O.C. 13)	0	0	0	11,938	11,938	0
Total Civilian Personnel Costs	253,161	256,219	6,840,470	1,152,620	7,993,090	31,196

<b>OPERATION AND MAINTENANCE, AIR FORCE</b>						
Direct Hire Civilians, United States:	111,827	113,532	3,102,941	533,259	3,636,200	32,028
Classified and administrative	29,149	29,593	771,221	117,898	889,119	30,045
Wage Board	140,976	143,125	3,874,162	651,157	4,525,319	31,618
Total United States	7,461	7,348	57,818	20,618	78,436	10,674
Direct Hire Foreign Nationals	148,437	150,473	3,931,980	671,775	4,603,755	30,595
Total Direct Hire	0	957	6,774	509	7,283	7,610
Disadvantaged Employment	11,542	12,131	278,364	0	278,364	22,909
Indirect Hire, Foreign Nationals	0	0	0	12,692	12,692	0
Foreign National Separation Liability Accrual	159,979	163,581	4,217,118	11,379	4,228,497	30,037
Benefits for Former Employees (O.C. 13)						
Total Civilian Personnel Costs						

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1990/FY 1991 PRESIDENT'S BUDGET  
FY 1988

Full-Time Equivalent End Strength	Work Years	Compensation O.C. 11	Compensation O.C. 12	Total Compensation	Average Compensation
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OPERATION AND MAINTENANCE, AIR FORCE RESERVE

Direct Hire Civilian, United States:					
Wage Board	7,392	7,238	182,346	35,346	217,692
Total United States	6,802	6,660	189,304	33,900	223,204
Direct Hire Foreign Nationals	14,194	13,898	371,650	69,246	440,896
Total Direct Hire	0	0	0	0	0
Disadvantaged Employment	14,194	13,898	371,650	69,246	440,896
Indirect Hire, Foreign Nationals	0	61	520	40	560
Foreign National Separation Liability Accrual	0	0	0	0	0
Benefits for Former Employees (O.C. 13)	0	0	0	86	86
Total Civilian Personnel Costs	14,194	13,959	372,170	69,372	441,542
					31,631

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD

Direct Hire Civilian, United States:					
Wage Board	9,635	9,616	263,596	46,549	310,145
Total United States	15,648	15,617	440,467	80,406	520,873
Direct Hire Foreign Nationals	25,283	25,233	704,063	126,955	831,018
Total Direct Hire	0	0	0	0	0
Disadvantaged Employment	25,283	25,233	704,063	126,955	831,018
Indirect Hire, Foreign Nationals	0	13	102	8	110
Foreign National Separation Liability Accrual	0	0	0	0	0
Benefits for Former Employees (O.C. 13)	0	0	0	473	473
Total Civilian Personnel Costs	25,283	25,246	704,165	127,436	831,601
					32,940

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1990/FY 1991 PRESIDENT'S BUDGET  
FY 1988

	Full-Time Equivalent End Strength	Work Years	Compensation		Total Compensation	Average Compensation
			O.C. 11	O.C. 12		
<b>INDUSTRIAL FUND</b>						
-----						
Direct Hire Civilians, United States:						
Classified and administrative	11,368	11,268	320,733	56,853	377,586	33,510
Wage Board	30,407	30,140	840,171	145,931	986,102	32,717
Total United States	41,775	41,408	1,160,904	202,784	1,363,688	32,933
Direct Hire Foreign Nationals	348	351	2,316	395	2,711	7,724
Total Direct Hire	42,123	41,759	1,163,220	203,179	1,366,399	32,721
Disadvantaged Employment		53	191	14	205	3,868
Indirect Hire, Foreign Nationals	499	493	12,345	0	12,345	25,041
Foreign National Separation Liability Accrual				(1,151)	(1,151)	0
Benefits for Former Employees (O.C. 13)				0	0	0
Total Civilian Personnel Costs	42,622	42,305	1,175,756	202,042	1,377,798	32,568

	Full-Time Equivalent End Strength	Work Years	Compensation		Total Compensation	Average Compensation
			O.C. 11	O.C. 12		
<b>RDTE</b>						
-----						
Direct Hire Civilians, United States:						
Classified and administrative	9,087	9,009	309,766	47,990	357,756	39,711
Wage Board	1,995	1,979	60,119	9,321	69,440	35,088
Total United States	11,082	10,988	369,885	57,311	427,196	38,878
Direct Hire Foreign Nationals	1	1	16	2	18	18,000
Total Direct Hire	11,083	10,989	369,901	57,313	427,214	38,877
Disadvantaged Employment		139	1,360	102	1,462	10,518
Indirect Hire, Foreign Nationals				0	0	0
Foreign National Separation Liability Accrual				0	0	0
Benefits for Former Employees (O.C. 13)				0	0	0
Total Civilian Personnel Costs	11,083	11,128	371,261	57,415	428,676	38,522

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1990/FY 1991 PRESIDENT'S BUDGET  
FY 1989

	Full-Time Equivalent End Strength	Work Years	Compensation O.C. 11	Compensation O.C. 12	Total Compensation	Average Compensation
SUMMARY						
Direct Hire Civilians, United States:						
Classified and administrative	158,779	154,233	4,393,765	829,211	5,222,976	33,864
Wage Board	84,225	84,960	2,376,405	411,628	2,788,033	32,816
Total United States	243,004	239,193	6,770,170	1,240,839	8,011,009	33,492
Direct Hire Foreign Nationals	6,724	6,522	56,541	19,151	75,692	11,606
Total Direct Hire	249,728	245,715	6,826,711	1,259,990	8,086,701	32,911
Disadvantaged Employment					0	0
Indirect Hire, Foreign Nationals	13,215	12,720	314,314	0	314,314	24,710
Foreign National Separation Liability Accrual				14,171	14,171	0
Benefits for Former Employees (O.C. 13)				11,844	11,844	0
Total Civilian Personnel Costs	262,943	258,435	7,141,025	1,286,005	8,427,030	32,608

OPERATION AND MAINTENANCE, AIR FORCE

Direct Hire Civilians, United States:						
Classified and administrative	121,847	116,942	3,286,303	625,405	3,911,708	33,450
Wage Board	30,470	29,233	779,466	134,296	913,762	31,258
Total United States	152,317	146,175	4,065,769	759,701	4,825,470	33,012
Direct Hire Foreign Nationals	6,356	6,143	54,075	18,612	72,687	11,832
Total Direct Hire	158,673	152,318	4,119,844	778,313	4,898,157	32,157
Disadvantaged Employment					0	0
Indirect Hire, Foreign Nationals	12,656	12,181	301,063	0	301,063	24,716
Foreign National Separation Liability Accrual				12,901	12,901	0
Benefits for Former Employees (O.C. 13)				11,259	11,259	0
Total Civilian Personnel Costs	171,329	164,499	4,420,907	802,473	5,223,380	31,753

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1990/FY 1991 PRESIDENT'S BUDGET  
FY 1989

Full-Time Equivalent End Strength	Work Years	Compensation		Total Compensation	Average Compensation
		O.C. 11	O.C. 12		
OPERATION AND MAINTENANCE, AIR FORCE RESERVE					
-----					
Direct Hire Civilians, United States:					
Classified and administrative					
Wage Board					
7,336	7,309	189,894	38,259	228,153	31,215
7,251	7,223	210,052	39,670	249,722	34,573
14,587	14,532	399,946	77,929	477,875	32,884
Direct Hire Foreign Nationals					
0	0	0	0	0	0
14,587	14,532	399,946	77,929	477,875	32,884
Total Direct Hire					
0	0	0	0	0	0
Disadvantaged Employment					
0	0	0	0	0	0
Indirect Hire, Foreign Nationals					
0	0	0	0	0	0
Foreign National Separation Liability Accrual					
0	0	0	96	96	0
Benefits for Former Employees (O.C. 13)					
14,587	14,532	399,946	78,025	477,971	32,891
Total Civilian Personnel Costs					

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD						
Direct Hire Civilians, United States:						
Wage Board	9,771	9,543	276,594	56,945	333,539	34,951
Total United States	15,870	15,499	462,645	97,519	560,164	36,142
Direct Hire Foreign Nationals	25,641	25,042	739,239	154,464	893,703	35,688
Total Direct Hire	25,641	25,042	739,239	154,464	893,703	35,688
Disadvantaged Employment	0	0	0	0	0	0
Indirect Hire, Foreign Nationals	0	0	0	0	0	0
Foreign National Separation Liability Accrual	0	0	0	0	0	0
Benefits for Former Employees (O.C. 13)	0	0	0	489	489	0
Total Civilian Personnel Costs	25,641	25,042	739,239	154,953	894,192	35,708

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1990/FY 1991 PRESIDENT'S BUDGET  
FY 1989

	Full-Time Equivalent End Strength	Work Years	Compensation O.C. 11	Compensation O.C. 12	Total Compensation	Average Compensation
<b>INDUSTRIAL FUND</b>						
Direct Hire Civilians, United States:						
Classified and administrative	10,578	11,707	332,281	54,500	386,781	33,038
Wage Board	28,604	31,088	864,647	129,445	994,092	31,977
Total United States	39,182	42,795	1,196,928	183,945	1,380,873	32,267
Direct Hire Foreign Nationals	368	379	2,466	539	3,005	7,929
Total Direct Hire	39,550	43,174	1,199,394	184,484	1,383,878	32,054
Disadvantaged Employment					0	0
Indirect Hire, Foreign Nationals	559	539	13,251	0	13,251	24,584
Foreign National Separation Liability Accrual				1,270	1,270	0
Benefits for Former Employees (O.C. 13)				0	0	0
Total Civilian Personnel Costs	40,109	43,713	1,212,645	185,754	1,398,399	31,990

	Full-Time Equivalent End Strength	Work Years	Compensation O.C. 11	Compensation O.C. 12	Total Compensation	Average Compensation
<b>RDTE</b>						
Direct Hire Civilians, United States:						
Classified and administrative	9,247	8,732	308,693	54,102	362,795	41,548
Wage Board	2,030	1,917	59,595	10,698	70,293	36,668
Total United States	11,277	10,649	368,288	64,800	433,088	40,669
Direct Hire Foreign Nationals	11,277	10,649	368,288	64,800	433,088	40,669
Total Direct Hire				0	0	0
Disadvantaged Employment				0	0	0
Indirect Hire, Foreign Nationals				0	0	0
Foreign National Separation Liability Accrual				0	0	0
Benefits for Former Employees (O.C. 13)				0	0	0
Total Civilian Personnel Costs	11,277	10,649	368,288	64,800	433,088	40,669

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1990/FY 1991 PRESIDENT'S BUDGET  
FY 1990

	Full-Time Equivalent		Work Years	Compensation		Total Compensation	Average Compensation
	End Strength			O.C. 11	O.C. 12		
SUMMARY							
-----							
Direct Hire Civilians, United States:							
Classified and administrative							
Wage Board							
	158,339	156,150		4,550,525	894,701	5,445,226	34,872
	84,062	83,558		2,404,894	441,775	2,846,669	34,068
Total United States	242,401	239,708		6,955,419	1,336,476	8,291,895	34,592
Direct Hire Foreign Nationals							
	6,643	6,595		58,662	25,226	83,888	12,720
Total Direct Hire	249,044	246,303		7,014,081	1,361,702	8,375,783	34,006
Disadvantaged Employment							
Indirect Hire, Foreign Nationals	13,399	12,949		391,022	0	391,022	30,197
Foreign National Separation Liability Accrual	0	0		0	13,843	13,843	0
Benefits for Former Employees (O.C. 13)	0	0		0	13,783	13,783	0
Total Civilian Personnel Costs	262,443	259,252		7,405,103	1,389,328	8,794,431	33,922
OPERATION AND MAINTENANCE, AIR FORCE							
-----							
Direct Hire Civilians, United States:							
Classified and administrative							
Wage Board							
	121,738	119,646		3,447,479	684,614	4,132,093	34,536
	30,435	30,224		830,585	150,152	980,737	32,449
Total United States	152,173	149,870		4,278,064	834,766	5,112,830	34,115
Direct Hire Foreign Nationals							
	6,282	6,234		55,967	24,605	80,572	12,925
Total Direct Hire	158,455	156,104		4,334,031	859,371	5,193,402	33,269
Disadvantaged Employment							
Indirect Hire, Foreign Nationals	12,855	12,424		377,232	0	377,232	30,363
Foreign National Separation Liability Accrual	0	0		0	13,843	13,843	0
Benefits for Former Employees (O.C. 13)	0	0		0	11,882	11,882	0
Total Civilian Personnel Costs	171,310	168,528		4,711,263	885,096	5,596,359	33,207



DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1990/FY 1991 PRESIDENT'S BUDGET  
FY 1990

	Full-Time Equivalent End Strength	Work Years	Compensation		Total Compensation	Average Compensation
			O.C. 11	O.C. 12		
OPERATION AND MAINTENANCE, AIR FORCE RESERVE						
-----						
Direct Hire Civilians, United States:						
Classified and administrative						
Wage Board						
	7,190	7,036	187,439	40,512	227,951	32,398
	7,247	7,082	212,271	43,226	255,497	36,077
Total United States	14,437	14,118	399,710	83,738	483,448	34,243
Direct Hire Foreign Nationals						
	14,437	14,118	399,710	83,738	483,448	34,243
Total Direct Hire						
Disadvantaged Employment						
Indirect Hire, Foreign Nationals						
Foreign National Separation Liability Accrual						
				104	104	0
Benefits for Former Employees (O.C. 13)						
	14,437	14,118	399,710	83,842	483,552	34,251
Total Civilian Personnel Costs						

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD							
Direct Hire Civilians, United States:							
Classified and administrative							
Wage Board	9,773	9,701		274,102	63,679	337,781	34,819
Total United States	15,873	15,754		458,032	109,255	567,287	36,009
Direct Hire Foreign Nationals	25,646	25,455		732,134	172,934	905,068	35,556
Total Direct Hire	25,646	25,455		732,134	172,934	905,068	35,556
Disadvantaged Employment							
Indirect Hire, Foreign Nationals							
Foreign National Separation Liability Accrual							
Benefits for Former Employees (O.C. 13)					505	505	0
Total Civilian Personnel Costs	25,646	25,455		732,134	173,439	905,573	35,575

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1990/FY 1991 PRESIDENT'S BUDGET  
FY 1990

	Full-Time Equivalent	Work End Strength Years	Compensation O.C. 11	Compensation O.C. 12	Total Compensation	Average Compensation
<b>INDUSTRIAL FUND</b>						
Direct Hire Civilians, United States:						
Classified and administrative						
Wage Board	10,547	10,831	317,594	48,028	365,622	33,757
Total United States	28,512	28,537	841,174	127,659	968,833	33,950
Direct Hire Foreign Nationals	39,059	39,368	1,158,768	175,687	1,334,455	33,897
Total Direct Hire	361	361	2,695	621	3,316	9,186
Disadvantaged Employment	39,420	39,729	1,161,463	176,308	1,337,771	33,672
Indirect Hire, Foreign Nationals	544	525	13,790	0	13,790	0
Foreign National Separation Liability Accrual				1,292	1,292	0
Benefits for Former Employees (O.C. 13)				177,600	1,352,853	33,608
Total Civilian Personnel Costs	39,964	40,254	1,175,253			

<b>RDTEE</b>						
Direct Hire Civilians, United States:						
Classified and administrative						
Wage Board	9,091	8,936	323,911	57,868	381,779	42,724
Total United States	1,995	1,961	62,832	11,483	74,315	37,896
Direct Hire Foreign Nationals	11,086	10,897	386,743	69,351	456,094	41,855
Total Direct Hire	11,086	10,897	386,743	69,351	456,094	41,855
Disadvantaged Employment				0	0	0
Indirect Hire, Foreign Nationals				0	0	0
Foreign National Separation Liability Accrual				0	0	0
Benefits for Former Employees (O.C. 13)				69,351	456,094	41,855
Total Civilian Personnel Costs	11,086	10,897	386,743			

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1990/FY 1991 PRESIDENT'S BUDGET  
FY 1991

	Full-Time Equivalent End Strength	Yrks Years	Compensation O.C. 11	Compensation O.C. 12	Total Compensation	Average Compensation
<b>SUMMARY</b>						
Direct Hire Civilians, United States:						
Classified and administrative	157,722	156,774	4,701,116	938,640	5,639,756	35,974
Wage Board	84,249	83,608	2,468,985	461,120	2,930,105	35,046
Total United States	241,971	240,382	7,170,101	1,399,760	8,569,861	35,651
Direct Hire Foreign Nationals	7,051	6,738	62,253	26,486	88,739	13,170
Total Direct Hire	249,022	247,120	7,232,354	1,426,246	8,658,600	35,038
Disadvantaged Employment	0	0	0	0	0	0
Indirect Hire, Foreign Nationals	12,658	12,766	397,092	0	397,092	31,105
Foreign National Separation Liability Accrual	0	0	0	14,788	14,788	0
Benefits for Former Employees (O.C. 13)	0	0	0	14,111	14,111	0
Total Civilian Personnel Costs	261,680	259,886	7,629,446	1,455,145	9,084,591	34,956
<b>OPERATION AND MAINTENANCE, AIR FORCE</b>						
Direct Hire Civilians, United States:						
Classified and administrative	121,142	120,322	3,575,126	726,624	4,301,750	35,752
Wage Board	30,631	30,352	858,049	159,530	1,017,579	33,526
Total United States	151,773	150,674	4,433,175	886,154	5,319,329	35,304
Direct Hire Foreign Nationals	6,656	6,377	59,132	25,922	85,054	13,338
Total Direct Hire	158,429	157,051	4,492,307	912,076	5,404,383	34,412
Disadvantaged Employment	0	0	0	0	0	0
Indirect Hire, Foreign Nationals	12,148	12,126	382,683	0	382,683	31,559
Foreign National Separation Liability Accrual	0	0	0	14,788	14,788	0
Benefits for Former Employees (O.C. 13)	0	0	0	12,116	12,116	0
Total Civilian Personnel Costs	170,577	169,177	4,874,990	938,980	5,813,970	34,366

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1990/FY 1991 PRESIDENT'S BUDGET  
FY 1991

Full-Time Equivalent End Strength	Work Years	Compensation O.C. 11	Compensation O.C. 12	Total Compensation	Average Compensation
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OPERATION AND MAINTENANCE, AIR FORCE RESERVE

Direct Hire Civilians, United States:					
Classified and administrative					
Wage Board	7,150	7,060	42,034	236,012	33,429
Total United States	7,207	7,107	44,903	264,097	37,160
Direct Hire Foreign Nationals	14,357	14,167	86,937	500,109	35,301
Total Direct Hire	14,357	14,167	86,937	500,109	35,301
Disadvantaged Employment				0	0
Indirect Hire, Foreign Nationals				0	0
Foreign National Separation Liability Accrual				0	0
Benefits for Former Employees (O.C. 13)			107	107	0
Total Civilian Personnel Costs	14,357	14,167	87,044	500,216	35,309

OPERATION AND MAINTENANCE, AIR NATIONAL GUARD

Direct Hire Civilians, United States:					
Classified and administrative					
Wage Board	9,774	9,715	66,110	349,215	35,946
Total United States	15,874	15,779	113,057	582,056	36,888
Direct Hire Foreign Nationals	25,648	25,494	179,167	931,271	36,529
Total Direct Hire	25,648	25,494	179,167	931,271	36,529
Disadvantaged Employment				0	0
Indirect Hire, Foreign Nationals				0	0
Foreign National Separation Liability Accrual				0	0
Benefits for Former Employees (O.C. 13)			520	520	0
Total Civilian Personnel Costs	25,648	25,494	179,687	931,791	36,549

DEPARTMENT OF THE AIR FORCE  
CIVILIAN PERSONNEL BUDGET CALCULATION  
FY 1990/FY 1991 PRESIDENT'S BUDGET  
FY 1991

	Full-Time Equivalent End Strength	Work Years	Compensation O.C. 11	Compensation O.C. 12	Total Compensation	Average Compensation
<b>INDUSTRIAL FUND</b>						
-----						
Direct Hire Civilians, United States:						
Classified and administrative						
Wage Board	10,542	10,778	316,262	44,410	360,672	33,464
Total United States	28,536	28,417	858,374	131,864	990,238	34,847
Direct Hire Foreign Nationals	39,078	39,195	1,174,636	176,274	1,350,910	34,466
Total Direct Hire	395	361	3,121	564	3,685	10,208
Disadvantaged Employment	39,473	39,556	1,177,757	176,838	1,354,595	34,245
Indirect Hire, Foreign Nationals						
Foreign National Separation Liability Accrual	510	640	14,409	0	14,409	22,514
Benefits for Former Employees (O.C. 13)				1,368	1,368	0
Total Civilian Personnel Costs	39,983	40,196	1,192,166	178,206	1,370,372	34,092

	Full-Time Equivalent End Strength	Work Years	Compensation O.C. 11	Compensation O.C. 12	Total Compensation	Average Compensation
<b>RDTE</b>						
-----						
Direct Hire Civilians, United States:						
Classified and administrative						
Wage Board	9,114	8,899	332,645	59,462	392,107	44,062
Total United States	2,001	1,953	64,369	11,766	76,135	38,984
Direct Hire Foreign Nationals	11,115	10,852	397,014	71,228	468,242	43,148
Total Direct Hire	11,115	10,852	397,014	71,228	468,242	43,148
Disadvantaged Employment						
Indirect Hire, Foreign Nationals						
Foreign National Separation Liability Accrual						
Benefits for Former Employees (O.C. 13)						
Total Civilian Personnel Costs	11,115	10,852	397,014	71,228	468,242	43,148

DEPARTMENT OF THE AIR FORCE  
DEPOT MAINTENANCE

(AIR FORCE - ACTIVE)  
(\$ Millions)

	FY 1988 ACTUAL			FY 1989 ESTIMATE					
	FINANCED UNITS	FINANCED \$M	UNFINANCED UNITS	UNFINANCED \$M	FINANCED UNITS	FINANCED \$M	UNFINANCED UNITS	UNFINANCED \$M	
Air Force.....	N/A	\$2,532.3	N/A	\$269.3	N/A	\$2,914.9	N/A	\$260.4	
Aircraft Depot Purchased Equipment Maintenance (DPBM).....	N/A	\$1,808.3	N/A	\$225.3	N/A	\$2,023.3	N/A	\$202.4	
Aircraft.....	445	427.6	24	23.2	535	513.5	N/A	25.1	
Engines.....	4,302	168.0	65	42.6	6,967	312.9	86	60.4	
Aviation Exchangeables.....	N/A	1,212.7	N/A	159.5	N/A	1,196.9	N/A	116.9	
Other DPBM.....	N/A	\$401.7	N/A	\$26.0	N/A	\$503.0	N/A	\$45.0	
Non-Aviation Exchangeables	N/A	134.7	N/A	17.7	N/A	133.0	N/A	13.0	
Other Major Non-Aviation Items.....	2,402	73.6	52	1.6	2,831	86.5	552	17.0	
Missiles.....	N/A	90.9	N/A	.4	N/A	106.8	N/A	4.1	
Area Base Support.....	N/A	93.2	N/A	6.3	N/A	165.1	N/A	10.9	
AWAC.....	N/A	9.3	N/A	0	N/A	11.6	N/A	0	
Other Maintenance.....	N/A	\$322.3	N/A	\$18.0	N/A	\$388.6	N/A	\$13.0	
Interim Contractor Support....	N/A	180.8	N/A	10.0	N/A	223.9	N/A	10.0	
Big Safari.....	N/A	136.0	N/A	8.0	N/A	155.6	N/A	3.0	
Other Logistics Activities...	N/A	6.6	N/A	0	N/A	9.1	N/A	0	

N/A = Not Applicable

Note: Numbers may not add to totals due to rounding.

(AIR FORCE - ACTIVE)  
(\$ Millions)

**N/A - Not Applicable**  
**Note: Numbers may not add to totals due to rounding.**

DEPARTMENT OF THE AIR FORCE  
DEPOT MAINTENANCE

METHOD OF ACCOMPLISHMENT  
(\$000)

	FY 1988 FINANCED			FY 1989 ESTIMATE		
	CONTRACT	ORGANIC	TOTAL	CONTRACT	ORGANIC	TOTAL
Air Force Total.....	\$1,052,459	\$1,479,868	\$2,532,327	\$1,251,648	\$1,663,283	\$2,914,931
Aircraft Depot Purchased Equipment Maintenance (DPEM).....	\$597,789	\$1,210,510	\$1,808,298	\$686,990	\$1,336,353	\$2,023,343
Aircraft.....	164,760	262,880	427,640	214,797	298,751	513,548
Engines.....	36,189	131,788	167,977	62,981	249,897	312,878
Aviation Exchangeables.....	396,840	815,842	1,212,681	409,212	787,705	1,196,917
Other DPEM.....	\$138,904	\$262,792	\$401,697	\$185,189	\$317,810	\$502,999
Non-Aviation Exchangeables.....	44,093	90,649	134,743	45,468	87,523	132,991
Other Major Non-Aviation Items.....	36,857	36,705	73,572	38,702	47,798	86,500
Missile Maintenance.....	54,241	36,621	90,862	66,372	40,458	106,830
Area Base Support.....	3,703	89,509	93,212	34,647	130,437	165,084
AWRC.....	0	9,308	9,308	0	11,594	11,594
Other Maintenance.....	\$315,766	\$6,566	\$322,332	\$379,469	\$9,120	\$388,589
Interim Contractor Support.....	180,755	0	180,755	223,880	0	223,880
Big Safari.....	136,011	0	136,011	155,589	0	155,589
Other Logistics Activities.....	0	6,566	6,566	0	9,120	9,120



DEPARTMENT OF THE AIR FORCE  
DEPT MAINTENANCE

METHOD OF ACCOMPLISHMENT  
(\$000)

	FY 1990 FINANCED			FY 1991 ESTIMATE		
	CONTRACT	ORGANIC	TOTAL	CONTRACT	ORGANIC	TOTAL
Air Force Total.....	\$1,248,913	\$1,758,538	\$3,007,451	\$1,283,393	\$1,736,381	\$3,019,774
Aircraft Depot Purchased Equipment Maintenance (DFEM).....	\$630,496	\$1,379,383	\$2,009,879	\$666,706	\$1,363,216	\$2,009,922
Aircraft.....	203,074	310,332	513,406	206,788	290,629	496,417
Engines.....	62,271	211,751	274,022	56,197	186,152	241,349
Aviation Exchangeables.....	365,151	867,300	1,222,451	396,721	876,436	1,272,156
Other DFEM.....	\$196,433	\$370,198	\$566,631	\$180,269	\$375,346	\$555,615
Non-Aviation Exchangeables.....	40,572	96,256	136,828	43,969	97,382	141,351
Other Major Non-Aviation Items..	42,949	47,723	90,672	37,679	43,844	81,523
Missile Maintenance.....	63,872	43,968	107,840	51,587	39,719	91,306
Area Base Support.....	48,040	170,603	218,643	47,034	181,630	228,664
AWAC.....	0	12,648	12,648	0	12,771	12,771
Other Maintenance.....	\$422,984	\$8,967	\$431,941	\$446,418	\$7,819	\$454,237
Interim Contractor Support.....	273,593	0	273,593	300,978	0	300,978
Big Safari.....	149,391	0	149,391	145,440	0	145,440
Other Logistics Activities.....	0	8,967	8,967	0	7,819	7,819

DEPARTMENT OF THE AIR FORCE  
DEPOT MAINTENANCE

AIRCRAFT ENGINES AND ACCESSORIES  
OPERATIONS AND MAINTENANCE, AIR FORCE  
(\$ Millions)

	FY 1988 ESTIMATE		FY 1989 ESTIMATE	
	CONTRACT	ORGANIC	CONTRACT	ORGANIC
Maintenance.....	\$597.8	\$1,210.5	\$687.0	\$1,336.3
Modernization.....	\$93.9	\$96.2	\$87.8	\$99.2
		\$190.1		\$187.0
		\$1,808.3		\$2,023.3

  

	FY 1990 ACTUAL		FY 1991 ESTIMATE	
	CONTRACT	IN-HOUSE	CONTRACT	IN-HOUSE
Maintenance.....	\$630.5	\$1,379.4	\$656.7	\$1,353.2
Modernization.....	\$104.8	\$102.0	\$99.0	\$80.3
		\$206.8		\$179.3
		\$2,009.9		\$2,009.9

Note: Contract data includes interservice workload funding.  
Numbers may not add to totals due to rounding.

**BY 88 ACTUAL**

DEPARTMENTAL SUPPORT ACTIVITIES (OSD)[illegible]

DEPARTMENT OF DEFENSE MANAGEMENT HEADQUARTERS AND HEADQUARTERS SUPPORT ACTIVITIES

	FY 88 ACTUAL			FY 89 ESTIMATE			FY 90 ESTIMATE			FY 91 ESTIMATE					
	MIL	CIV	TOT	MIL	CIV	TOT	MIL	CIV	TOT	MIL	CIV	TOT			
	END	END	CHL	END	END	CHL	END	END	CHL	END	END	CHL			
	SIR	SIR	(000)	SIR	SIR	(000)	SIR	SIR	(000)	SIR	SIR	(000)			
	OFF	ENL	TOT	OFF	ENL	TOT	OFF	ENL	TOT	OFF	ENL	TOT			
Total Departmental Support (OSD) Activities	84	36	120	73	\$8,348	98	47	145	79	\$10,383	90	36	126	75	\$10,502

## DEPARTMENT OF DEFENSE MANAGEMENT HEADQUARTERS AND HEADQUARTERS SUPPORT ACTIVITIES

	FY 88 ACTUAL						FY 89 ESTIMATE						FY 90 ESTIMATE						FY 91 ESTIMATE					
	MIL	END	SIR	TOT CHL (000)	CIV END SIR	TOT CHL (000)	MIL	END	SIR	TOT CHL (000)	CIV END SIR	TOT CHL (000)	MIL	END	SIR	TOT CHL (000)	CIV END SIR	TOT CHL (000)	MIL	END	SIR	TOT CHL (000)	CIV END SIR	TOT CHL (000)
U.S. Special Operations Command																								
HAF	90	42	132	\$6,511		\$6,739	89	43	132			\$6,765	86	39	125				93					\$6,760
OWF				\$2,576	76	\$2,713				76		\$3,593												\$3,825
U.S. Transportation Command																								
HAF	54	27	81	\$3,955		\$4,462	56	35	91			\$4,538	56	35	91				89					\$4,678
OWF				\$972	70	\$2,777				93		\$3,594												\$3,326
Total Unified Commands	835	624	1,459	\$73,407	267	\$73,663	830	481	1,311	270		\$75,005	803	449	1,252	286								\$76,080

## SPECIFIED COMMANDS

[illegible]

DEPARTMENT OF DEFENSE MANAGEMENT HEADQUARTERS AND HEADQUARTERS SUPPORT ACTIVITIES

	FY 88 ACTUAL									FY 89 ESTIMATE									FY 90 ESTIMATE									FY 91 ESTIMATE								
	MIL			CIV			TOT			MIL			CIV			TOT			MIL			CIV			TOT			MIL			CIV			TOT		
	END	STR		END	STR		END	STR		END	STR		END	STR		END	STR		END	STR		END	STR		END	STR		END	STR							
HQ 8th Air Force	137	139	276			48						137	139	276			48						125	110	235			40			40					
HPAF																																				
CHAF																																				
HQ 15th Air Force	133	142	275			49						133	142	275			49						121	113	234			41			41					
HPAF																																				
CHAF																																				
HQ Reserve Command	20	1	21			5						20	1	23			7						22	1	23			7			7					
HPAF																																				
CHAF																																				
Total Specified Commands	1,933	1,841	3,794	1,163	\$206,828	2,058	1,930	4,008	1,351	\$227,765	2,047	1,833	3,880	1,287	\$277,406	2,047	1,833	3,877	1,280	\$233,113																

MILITARY DEPARTMENT HEADQUARTERS

DEPARTMENTAL ACTIVITIES

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**EXHIBIT 16**

FY 88 ACTUAL				FY 89 ESTIMATE				FY 90 ESTIMATE				FY 91 ESTIMATE				
MIL	CIV	TOT		MIL	CIV	TOT		MIL	CIV	TOT		MIL	CIV	TOT		
END	END	CHL		END	END	CHL		END	END	CHL		END	END	CHL		
SIR	SIR	(000)		SIR	SIR	(000)		SIR	SIR	(000)		SIR	SIR	(000)		
OFF	ENL	TOT		OFF	ENL	TOT		OFF	ENL	TOT		OFF	ENL	TOT		
21	3	24	31	\$981	21	3	24	\$1,005	21	3	24	\$1,017	21	3	24	\$1,024
				\$1,192			30	\$1,231			30	\$1,233			30	\$1,272
Air Staff AF																
HAF																
CAF																
Total Departmental Activities																
1,271	138	1,409	940	\$172,837	1,399	146	1,545	1,094	\$132,626	1,385	167	1,552	1,087	1,552	1,087	\$141,822
FUNCTIONAL SUPPORT ACTIVITIES (AF)																
7th Command Group (AF																
Headquarters Support)																
93	32	125	114	\$6,421	93	32	125	\$6,681	91	32	123	\$6,673	91	32	123	\$6,887
				\$4,353			113	\$4,173			115	\$4,246			115	\$4,429
Total Departmental Support Activities (AF)																
93	32	125	114	\$10,784	93	32	125	\$10,854	91	32	123	\$10,919	91	32	123	\$11,316
FUNCTIONAL/REGIONAL SUPPORT ACTIVITIES																
HQ Air Force Logistics Command																
253	105	358	1,177	\$17,951	277	103	380	\$20,114	277	103	380	\$20,471	274	103	377	\$20,526
				\$41,597			1,269	\$46,631			1,269	\$48,222			1,272	\$50,140
CAF																

DEPARTMENT OF DEFENSE MANAGEMENT HEADQUARTERS AND HEADQUARTERS SUPPORT ACTIVITIES

	FY 88 ACTUAL						FY 89 ESTIMATE						FY 90 ESTIMATE						FY 91 ESTIMATE															
	MIL	CIV	TOT	END	ENL	SIR	TOT	CIV	TOT	END	ENL	SIR	TOT	MIL	CIV	TOT	END	ENL	SIR	TOT	MIL	CIV	TOT	END	ENL	SIR	TOT	MIL	CIV	TOT	END	ENL	SIR	TOT
			(000)				(000)						(000)							(000)							(000)						(000)	
HQ Air Force Systems Command																																		
HAF	465	141	606				\$31,591						\$31,952	420	115	535				\$29,880	420	115	535				654					\$30,845		
OAF							\$19,972	605					\$21,341							\$26,268												\$27,896		
HQ Aeronautical Systems Division																																		
HAF	30	10	40				\$2,062	84					\$2,146	30	10	40				\$2,185	30	10	40				84					\$2,255		
OAF							\$3,532						\$2,963							\$3,374												\$3,983		
HQ Electronic Systems Division																																		
HAF	32	19	51				\$2,425	72					\$2,522	32	19	51				\$2,565	32	19	51				72					\$2,644		
OAF							\$3,028						\$2,540							\$2,892												\$3,071		
HQ Space Division																																		
HAF	32	18	50				\$2,398	66					\$2,494	32	18	50				\$2,537	32	18	50				66					\$2,616		
OAF							\$2,775						\$2,328							\$2,651												\$2,815		
HQ Human Systems Division																																		
HAF	24	12	36				\$1,728	40					\$1,829	24	12	36				\$1,860	24	12	36				40					\$1,919		
OAF							\$1,682						\$1,411							\$1,607												\$1,706		
HQ Assessment Division																																		
HAF	28	15	43				\$2,078	38					\$2,161	28	15	43				\$2,199	28	15	43				38					\$2,267		
OAF							\$1,598						\$1,340							\$1,526												\$1,621		
HQ Air Force Reserve																																		
HAF	55	87	142				\$6,097	149					\$6,245	54	86	140				\$6,327	54	86	140				152					\$6,372		
OAF							\$5,624						\$5,464							\$5,765												\$6,155		
HQ Air Training Command																																		
HAF	392	314	706				\$31,899	365					\$32,416	387	294	681				\$32,828	387	294	681				406					\$33,825		
OAF							\$13,596						\$13,394							\$14,522												\$15,023		



DEPARTMENT OF DEFENSE MANAGEMENT HEADQUARTERS AND HEADQUARTERS SUPPORT ACTIVITIES

	FY 88 ACTUAL						FY 89 ESTIMATE						FY 90 ESTIMATE						FY 91 ESTIMATE													
	MIL	END	SIR	CIV	CHL	TOT	MIL	END	SIR	CIV	CHL	TOT	MIL	END	SIR	CIV	CHL	TOT	MIL	END	SIR	CIV	CHL	TOT	MIL	END	SIR	CIV	CHL	TOT		
					(000)																											
HQ Air University	54	42	96	54		\$4,360	55	40	95	62	\$2,017		54	38	92	65	\$4,496		54	38	92	65	\$2,135		54	38	92	65	\$4,496			
MARP																																
OAF						\$1,808																										
HQ Air Force Communications Command	314	402	716	356		\$29,614	387	439	826	468	\$16,307		344	408	752	467	\$33,312		344	408	752	467	\$17,540		344	408	752	467	\$34,282			
MARP																																
OAF						\$14,430																								\$18,392		
HQ Electronic Security Command	170	290	460	245		\$17,986	147	257	404	224	\$8,116		151	252	403	225	\$16,676		149	249	398	230	\$9,217		149	249	398	230	\$16,926			
MARP																																
OAF						\$8,660																								\$9,634		
Air Force District of Washington	77	100	177	247		\$7,300	89	92	181	249	\$8,613		89	93	182	245	\$8,265		89	94	183	244	\$9,105		89	94	183	244	\$8,337			
MARP																																
OAF						\$9,153																								\$9,370		
1100 Resource Management Group	17	86	103	169		\$3,337	17	87	104	195	\$6,746		17	87	104	195	\$3,529		17	87	104	195	\$7,246		17	87	104	195	\$3,615			
MARP																																
OAF						\$6,262																								\$7,487		
Total Functional Support Activities	1,943	1,641	3,584	3,536		\$294,335	2,017	1,610	3,627	3,918	\$309,887		1,979	1,530	3,489	3,978	\$319,198		1,934	1,548	3,482	3,985	\$330,827		1,934	1,548	3,482	3,985	\$330,827			
COMBONANT/COMBANT SUPPORT ACTIVITIES																																
HQ Pacific Air Force	310	288	598	216		\$26,297	316	260	576	239	\$8,362		316	260	576	239	\$27,367		316	260	576	239	\$11,408		316	260	576	239	\$28,192			
MARP																																
OAF						\$9,360																								\$11,797		

## FY 88 ACTUAL

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DEPARTMENT OF DEFENSE MANAGEMENT HEADQUARTERS AND HEADQUARTERS SUPPORT ACTIVITIES

FY 88 ACTUAL										FY 89 ESTIMATE										FY 91 ESTIMATE																
	MIL			CIV			TOT			MIL			CIV			TOT			MIL			CIV			TOT			MIL			CIV			TOT		
	END	ENL	STR	END	ENL	STR	CHL	(000)	END	ENL	STR	CHL	(000)	END	ENL	STR	CHL	(000)	END	ENL	STR	CHL	(000)	END	ENL	STR	CHL	(000)	END	ENL	STR	CHL	(000)			
HQ 3rd Air Force																																				
HAF	27	23	50	12			\$2,224						\$2,322	27	23	50																\$2,431				
CHAF							\$500						\$356																			\$442				
HQ 16th Air Force																																				
HAF	22	12	34	13			\$1,638						\$1,704	22	12	34																\$1,787				
CHAF							\$542						\$386																			\$479				
HQ 17th Air Force																																				
HAF	26	13	39	7			\$1,904						\$1,981	26	13	39																\$2,078				
CHAF							\$292						\$208																			\$258				
HQ Alaskan Air Command																																				
HAF	107	125	232	71			\$9,768						\$9,642	102	118	220																\$10,079				
CHAF							\$2,671						\$3,158																			\$3,123				
Total Command Support Activities										2,308	2,011	4,319	1,247	\$241,478	2,422	1,934	4,356	1,418	\$251,263	2,413	1,940	4,353	1,421	\$261,174	2,413	1,940	4,353	1,421	\$268,425							
Miscellaneous FY88 Actuals																																				
HAF	1	1	2				\$0						\$0	0	0	0																\$0				
CHAF				3			\$0						\$0																			\$0				
Total Air Force Management Headquarters Activities										8,715	6,603	15,318	7,323	\$79,112	9,146	6,482	15,628	8,243	\$1,038,565	9,009	6,306	15,315	8,249	\$1,063,568	8,988	6,284	15,272	8,233	\$1,095,942							

DEPARTMENT OF AIR FORCE  
SUMMARY OF LEGISLATIVE ACTIVITIES - FISCAL YEAR 1988  
FY 1990/FY 1991 PRESIDENT'S BIENNIAL BUDGET  
(\$ IN THOUSANDS)

A. LEGISLATIVE LIAISON (Subject to Congressional Limitation)

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
Limitation	12	316	22	1,614	240	2,170
Pay Raise	-	5	-	27	-	32
Subtotal	12	321	22	1,641	240	2,202

1. All personnel assigned permanently or detailed to any legislative liaison office, including all personnel physically located in an office on Capitol Hill. Also all personnel involved in the preparation and execution of Congressional travel.

2. All personnel assigned to approved legislative liaison positions of other Department of Defense activities and agencies whose primary mission is to promote liaison of their activity or agency with Congress.

NOT APPLICABLE

Limitation  
Pay Raise  
Subtotal

3. All personnel assigned permanently or detailed to comptroller or budget liaison offices.

Limitation	8	300	9	584	139	1,023
Pay Raise	-	5	-	9	-	14
Subtotal	8	305	9	593	139	1,037
Total Legislative Liaison						
Limitation	20	616	31	2,198	379	3,193
Pay Raise	-	10	-	36	-	46
Total	20	626	31	2,234	379	3,239

DEPARTMENT OF AIR FORCE  
SUMMARY OF LEGISLATIVE ACTIVITIES - FISCAL YEAR 1988  
FY 1990/FY 1991 PRESIDENT'S BIENNIAL BUDGET  
(\$ IN THOUSANDS)

**B. OTHER LEGISLATIVE ACTIVITIES**

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
1. Those personnel not included in Category A "Legislative Liaison" in the various Departments who spend at least 30 man days per year in direct personal contact with Members and committees of Congress and their staffs.						
Program	2	89	16	784	6	879
Pay Raise	-	1	-	12	-	13
Subtotal	2	90	16	796	6	892
2. Personnel involved with the routine activities necessary for the preparation of a legislative program such as tracking legislation, writing analyses and performing research with respect to legislation.						
Program	15	583	15	1,008	23	1,614
Pay Raise	-	7	-	15	-	22
Subtotal	15	590	15	1,023	23	1,636
3. Personnel not included above who spend more than 30 man days per year in coordinating and answering Congressional inquiries, constituent letters and telephone inquiries.						
Program	12	466	41	2,597	0	3,063
Pay Raise	-	6	-	40	-	46
Subtotal	12	472	41	2,637	0	3,109
4. Personnel not included above who spend more than 30 man days per year in preparation and processing of congressional justification books, witness statements, and hearing transcripts.						
Program	8	211	6	1,028	6	1,245
Pay Raise	-	3	-	16	-	19
Subtotal	8	214	6	1,044	6	1,264
			50			

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
5. All clerical and administrative personnel who spend at least 30 man days per year assisting those personnel identified in Category B.						
Program	26	626	8	244	31	901
Pay Raise	-	8	-	4	-	12
Subtotal	26	634	8	248	31	913
Total Other Legislative Activities						
Program	63	1,975	86	5,661	66	7,702
Pay Raise	-	25	-	87	-	112
Total	63	2,000	86	5,748	66	7,814
GRAND TOTAL FY 88						
Program	83	2,591	117	7,859	445	10,895
Pay Raise	-	35	-	123	-	158
Total	83	2,626	117	7,982	445	11,053

DEPARTMENT OF AIR FORC  
SUMMARY OF LEGISLATIVE ACTIVITIES - FISCAL YEAR 1989  
FY 1990/FY 1991 PRESIDENT'S BIENNIAL BUDGET  
(\$ IN THOUSANDS)

A. LEGISLATIVE LIAISON (Subject to Congressional Limitation)

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
1. All personnel assigned permanently or detailed to any legislative liaison office, including all personnel physically located in an office on Capitol Hill. Also all personnel involved in the preparation and execution of Congressional travel.						
Program	12	350	22	1,776	171	2,297
Pay Raise	-	9	-	53	-	62
Subtotal	12	359	22	1,829	171	2,359

2. All personnel assigned to approved legislative liaison positions of other Department of Defense activities and agencies whose primary mission is to promote liaison of their activity or agency with Congress.

Limitation  
Pay Raise  
Subtotal

NOT APPLICABLE

3. All personnel assigned permanently or detailed to comptroller or budget liaison offices.

Program	8	337	9	632	99	1,068
Pay Raise	-	8	-	19	-	27
Subtotal	8	345	9	651	99	1,095
Total Legislative Liaison						
Program	20	687	31	2,408	270	3,365
Pay Raise	-	17	-	72	-	89
Subtotal	20	704	31	2,480	270	3,454

DEPARTMENT OF AIR FORCE  
SUMMARY OF LEGISLATIVE ACTIVITIES - FISCAL YEAR 1989  
FY 1990/FY 1991 PRESIDENT'S BIENNIAL BUDGET  
(\$ IN THOUSANDS)

B. OTHER LEGISLATIVE ACTIVITIES

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	Other Costs	Total Cost
1. Those personnel not included in Category A "Legislative Liaison" in the various Departments who spend at least 30 man days per year in direct personal contact with Members and committees of Congress and their staffs.						
Program	2	91	16	808	3	902
Pay Raise	-	2	-	33	-	35
Subtotal	2	93	16	841	3	937
2. Personnel involved with the routine activities necessary for the preparation of a legislative program such as tracking legislation, writing analyses and performing research with respect to legislation.						
Program	15	591	15	1,038	20	1,649
Pay Raise	-	15	-	43	-	58
Subtotal	15	606	15	1,081	20	1,707
3. Personnel not included above who spend more than 30 man days per year in coordinating and answering Congressional inquiries, constituent letters and telephone inquiries.						
Program	12	476	41	2,676	16	3,168
Pay Raise	-	12	-	110	-	122
Subtotal	12	488	41	2,786	16	3,290
4. Personnel not included above who spend more than 30 man days per year in preparation and processing of congressional justification books, witness statements, and hearing transcripts.						
Program	8	216	6	1,059	7	1,282
Pay Raise	-	5	-	43	-	48
Subtotal	8	221	6	1,102	7	1,330
						53



	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
5. All clerical and administrative personnel who spend at least 30 man days per year assisting those personnel identified in Category B.						
Program	26	635	8	252	22	909
Pay Raise	-	16	-	10	-	26
Subtotal	26	651	8	262	22	935
Total Other Legislative Activities						
Program	63	2,009	86	5,833	68	7,910
Pay Raise	-	50	-	239	-	289
Total	63	2,059	86	6,072	68	8,199
GRAND TOTAL FY 89						
Program	83	2,696	117	8,241	338	11,275
Pay Raise	-	67	-	311	-	378
Total	83	2,763	117	8,552	338	11,653

DEPARTMENT OF AIR FORCE  
SUMMARY OF LEGISLATIVE ACTIVITIES - FISCAL YEAR 1990  
FY 1990/FY 1991 PRESIDENT'S BIENNIAL BUDGET  
(\$ IN THOUSANDS)

A. LEGISLATIVE LIAISON (Subject to Congressional Limitation)

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
1. All personnel assigned permanently or detailed to any legislative liaison office, including all personnel physically located in an office on Capitol Hill. Also all personnel involved in the preparation and execution of Congressional travel.						
Limitation	12	364	22	1,836	177	2,377
Pay Raise	-	7	-	63	-	70
Subtotal	12	371	22	1,899	177	2,447

2. All personnel assigned to approved legislative liaison positions of other Department of Defense activities and agencies whose primary mission is to promote liaison of their activity or agency with Congress.

Limitation NOT APPLICABLE  
Pay Raise  
Subtotal

3. All personnel assigned permanently or detailed to comptroller or budget liaison offices.

Limitation	8	344	9	654	108	1,106
Pay Raise	-	6	-	22	-	28
Subtotal	8	350	9	676	108	1,134
Total Legislative Liaison						
Limitation	20	708	31	2,490	285	3,483
Pay Raise	-	13	-	85	-	98
Total	20	721	31	2,575	285	3,581
					55	

DEPARTMENT OF AIR FORCE  
SUMMARY OF LEGISLATIVE ACTIVITIES - FISCAL YEAR 1990  
FY 1990/FY 1991 PRESIDENT'S BIENNIAL BUDGET  
(\$ IN THOUSANDS)

**B. OTHER LEGISLATIVE ACTIVITIES**

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
1. Those personnel not included in Category A "Legislative Liaison" in the various Departments who spend at least 30 man days per year in direct personal contact with Members and committees of Congress and their staffs.						
Program	2	94	16	841	3	938
Pay Raise	-	2	-	39	-	41
Subtotal	2	96	16	880	3	979
2. Personnel involved with the routine activities necessary for the preparation of a legislative program such as tracking legislation, writing analyses and performing research with respect to legislation.						
Program	15	615	15	1,081	21	1,717
Pay Raise	-	11	-	50	-	61
Subtotal	15	626	15	1,113	21	1,778
3. Personnel not included above who spend more than 30 man days per year in coordinating and answering Congressional inquiries, constituent letters and telephone inquiries.						
Program	12	491	41	2,786	16	3,293
Pay Raise	-	9	-	128	-	137
Subtotal	12	500	41	2,914	16	3,430
4. Personnel not included above who spend more than 30 man days per year in preparation and processing of congressional justification books, witness statements, and hearing transcripts.						
Program	8	223	6	1,103	7	1,333
Pay Raise	-	4	-	51	-	55
Subtotal	8	227	6	1,154	7	1,388
			56			

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
5. All clerical and administrative personnel who spend at least 30 man days per year assisting those personnel identified in Category B.						
Program	26	661	8	262	22	945
Pay Raise	-	12	-	12	-	24
Subtotal	26	673	8	274	22	969
Total Other Legislative Activities						
Program	63	2,084	86	6,073	69	8,226
Pay Raise	-	38	-	280	-	318
Total	63	2,122	86	6,353	69	8,544
GRAND TOTAL FY 90						
Program	83	2,792	117	8,563	354	11,709
Pay Raise	-	51	-	365	-	416
Total	83	2,843	117	8,928	354	12,125

DEPARTMENT OF AIR FORCE  
SUMMARY OF LEGISLATIVE ACTIVITIES - FISCAL YEAR 1991  
FY 1990/FY 1991 PRESIDENT'S BIENNIAL BUDGET  
(\$ IN THOUSANDS)

A. LEGISLATIVE LIAISON (Subject to Congressional Limitation)

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
1. All personnel assigned permanently or detailed to any legislative liaison office, including all personnel physically located in an office on Capitol Hill. Also all personnel involved in the preparation and execution of Congressional travel.						
Limitation	12	374	22	1,908	183	2,465
Pay Raise	-	7	-	64	-	71
Subtotal	12	381	22	1,972	183	2,536

2. All personnel assigned to approved legislative liaison positions of other Department of Defense activities and agencies whose primary mission is to promote liaison of their activity or agency with Congress.

Limitation . . . NOT APPLICABLE  
Pay Raise  
Subtotal

3. All personnel assigned permanently or detailed to comptroller or budget liaison offices.

Limitation	8	354	9	679	111	1,144
Pay Raise	-	6	-	23	-	29
Subtotal	8	360	9	702	111	1,173

Total Legislative Liaison

Limitation	20	728	31	2,587	294	3,609
Pay Raise	-	13	-	87	-	100
Total	20	741	31	2,674	294	3,709

DEPARTMENT OF AIR FORCE  
SUMMARY OF LEGISLATIVE ACTIVITIES - FISCAL YEAR 1991  
FY 1990/FY 1991 PRESIDENT'S BIENNIAL BUDGET  
(\$ IN THOUSANDS)

**B. OTHER LEGISLATIVE ACTIVITIES**

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
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1. Those personnel not included in Category A "Legislative Liaison" in the various Departments who spend at least 30 man days per year in direct personal contact with Members and committees of Congress and their staffs.

Program	2	97	16	880	3	980
Pay Raise	-	2	-	40	-	42
Subtotal	2	99	16	920	3	1,022

2. Personnel involved with the routine activities necessary for the preparation of a legislative program such as tracking legislation, writing analyses and performing research with respect to legislation.

Program	15	632	15	1,131	21	1,784
Pay Raise	-	12	-	51	-	63
Subtotal	15	644	15	1,182	21	1,847

3. Personnel not included above who spend more than 30 man days per year in coordinating and answering Congressional inquiries, constituent letters and telephone inquiries.

Program	12	505	41	2,914	17	3,436
Pay Raise	-	9	-	131	-	140
Subtotal	12	514	41	3,045	17	3,576

4. Personnel not included above who spend more than 30 man days per year in preparation and processing of congressional justification books, witness statements, and hearing transcripts.

Program	8	229	6	1,154	8	1,391
Pay Raise	-	4	-	52	-	56
Subtotal	8	233	6	1,206	8	1,447
			59			

	Av. No. Civ. Emps	Total Civilian Compensation	Av. No. Mil. Pers	Total Military Cost	All Other Costs	Total Cost
5. All clerical and administrative personnel who spend at least 30 man days per year assisting those personnel identified in Category B.						
Program	26	679	8	274	23	976
Pay Raise	-	12	-	12	-	24
Subtotal	26	691	8	286	23	1,000
Total Other Legislative Activities						
Program	63	2,142	86	6,353	72	8,567
Pay Raise	-	39	-	286	-	325
Total	63	2,181	86	6,639	72	8,892
GRAND TOTAL FY 91						
Program	83	2,870	117	8,940	366	12,176
Pay Raise	-	52	-	373	-	425
Total	83	2,922	117	9,313	366	12,601

**Maintenance of Real Property Facilities**  
(Dollars in Thousands)

		FY 1988	FY 1989	FY 1990	FY 1991
		Actual	Estimate	Estimate	Estimate
<b>1. Funded Program</b>					
<b>a. Category of Maintenance</b>					
Recurring Maintenance					
Major Repair Projects		\$977,444	\$1,052,432	\$1,167,803	\$1,211,448
Minor Construction		442,850	420,659	495,516	527,003
		158,197	119,240	128,644	135,695
		-----	-----	-----	-----
Total Maintenance of Real Property Facilities		\$1,578,491	\$1,592,331	\$1,791,963	\$1,874,146
<b>b. Budget Activity</b>					
Strategic Forces					
General Purpose Forces		\$416,399	\$432,143	\$489,999	\$530,396
Intelligence & Communications		544,910	548,906	588,015	624,730
Airlift		51,998	40,278	42,371	43,410
Central Supply and Maintenance		133,369	139,833	158,418	166,322
Training and Other General		216,765	201,043	243,783	237,032
Personnel Activities		158,930	157,585	193,949	192,278
Medical		45,030	60,821	61,376	65,357
Administration & Associated Activities		10,890	11,722	14,052	14,621
		-----	-----	-----	-----
Total Maintenance of Real Property Facilities		\$1,578,491	\$1,592,331	\$1,791,963	\$1,874,146
<b>2. Requested Floor</b>					
		\$1,537,731	(none)	(none)	(none)
<b>3. Backlog of Maintenance and Repair</b>					
		\$869,400	\$1,060,800	\$1,219,500	\$1,369,500



DEPARTMENT OF THE AIR FORCE  
FY 1990/FY 1991 PRESIDENT'S BUDGET  
MANPOWER CHANGES IN FULL TIME EQUIVALENT END STRENGTHS  
FY 1989 THROUGH FY 1991

	FUNDED DIRECT	CIVILIAN PERSONNEL INDUSTRIALLY FUNDED	TOTAL
	-----	-----	-----
1. FY 1988 END STRENGTH			
<u>FORCE STRUCTURE</u>	210,539	42,622	253,161
STRAT OFFENSE	-500	0	-500
TACTICAL	-200	0	-200
GLCM	-100	0	-100
AFR/ANG FORCES	-400	0	-400
MISC	100	0	100
	100	0	100
 <u>READINESS &amp; SUSTAINABILITY</u>			
CONG ADD (RES FORCES)	550	0	550
LOG READINESS INIT	150	0	150
SDI	100	0	100
WEAPON SYS DEV & TEST	100	0	100
	200	0	200
 <u>COMMAND/CONTROL INTEL</u>			
COMM UPGRADES	-350	0	-350
SAR PROGRAMS	-450	0	-450
BASE INFO DIG DIST SYS	100	0	100
AUDIOVISUAL	100	0	100
	-100	0	-100
 <u>TRAINING/PIPELINE/ACTUALS</u>			
FY 88 ACTUALS	13,000	-700	12,300
	13,000	-700	12,300
 <u>ECONOMIC INITIATIVES</u>			
COST COMPARISON (A-76)	-2,800	0	-2,800
DATA AUTOMATION INIT	-600	0	-600
CENTRALIZED CIV PAY	-50	0	-50
LOG MOD SYS	-150	0	-150
	-2,000	0	-2,000

OTHER					
SARPA TO ARMY	2,395	-1,813	582		
SARPA FUNDING CONV	-400	0	-400		
OFFICER RED/CONV	1,800	-1,800	0		
FAMILY SPT CENTERS	400	0	400		
OKINAWA FAM HOUSING	100	0	100		
FMS	100	0	100		
BALANCE W/Y & E/S	-100	0	-100		
MIL/CIV CONVERSIONS	400	0	400		
CLASSIFIED PROGRAMS	100	0	100		
MISC	100	0	100		
	-105	-13	-118		
2. FY 1989 END STRENGTH	222,834	40,109	262,943		
FORCE STRUCTURE	180	-30	150		
STRATEGIC OFF	-50	0	-50		
STRATEGIC MISSILES	50	0	50		
TACTICAL	100	0	100		
GLCM	-50	0	-50		
MOBILITY	100	0	100		
MISC	30	-30	0		
COMMAND/CONTROL INTEL	580	-30	550		
COMM UPGRADES	-50	0	-50		
SPACE ACTIVITIES	150	0	150		
SDIO	100	0	100		
WMCCS/WWABNCP	100	0	100		
VISUAL INFO SYSTEMS	-50	0	-50		
SAR PROGRAMS	250	0	250		
RADARS	50	0	50		
MISC	30	-30	0		
ECONOMIC INITIATIVES	-1230	-20	-1,250		
COST COMPARISON (A-76)	-2,150	0	-2,150		
DATA AUTOMATION INIT	-350	0	-350		
MIL CIV CONV	1,100	0	1,100		
MWR - CONG DIRECTED	150	0	150		
MISC	20	-20	0		

<u>OTHER</u>	115	-65	50
COMPETITION ADV PRG	-200	0	-200
RESEARCH & DEVEL	50	0	50
FMS	-50	0	-50
DOD IG CMD HQS REVIEW	-100	0	-100
FAMILY SUPPORT CTR	150	0	150
JOINT ACTIONS	50	0	50
OFFICER RED/CONV	400	0	400
SOCIAL ACTIONS	-150	0	-150
MISC	-35	-65	-100
	222,479	39,964	262,443
3. FY 1990 END STRENGTH	-650	0	-650
<u>FORCE STRUCTURE</u>	50	0	50
STRATEGIC OFF	-100	0	-100
TACTICAL	-600	0	-600
GLCM			
<u>READINESS &amp; SUSTAINABILITY</u>	100	0	100
BASE SURVIVABILITY	50	0	50
OPERATIONAL TEMPO	50	0	50
<u>COMMAND/CONTROL INTEL</u>	150	0	150
SPACE ACTIVITIES	50	0	50
SAR PROGRAMS	100	0	100
<u>ECONOMIC INITIATIVES</u>	-200	0	-200
COST COMPARISON (A-76)	-150	0	-150
DATA AUTOMATION INIT	-50	0	-50
<u>OTHER</u>	-182	19	-163
COMPETITION ADV PRG	-200	0	-200
FMS	-50	0	-50
FAMILY SUPPORT CTRS	100	0	100
MISC	-32	19	-13
4. FY 1991 END STRENGTH	221,697	39,983	261,680

# 5. SUMMARY

	FY 1988	FY 1989	FY 1990	FY 1991
O&M	159,979	171,329	171,310	170,577
DIRECT	144,567	157,614	157,898	156,279
REIMBURSABLE	15,412	13,715	13,412	14,298
INDUSTRIAL FUND	42,622	40,109	39,964	39,983
DIRECT	0	0	0	0
REIMBURSABLE	42,622	40,109	39,964	39,983
RD&E	11,083	11,277	11,086	11,115
DIRECT	9,536	9,687	9,534	9,559
REIMBURSABLE	1,547	1,590	1,552	1,556
AFR	14,194	14,587	14,437	14,357
DIRECT	14,167	14,560	14,410	14,330
REIMBURSABLE	27	27	27	27
ANG	25,283	25,641	25,646	25,648
DIRECT	25,070	25,420	25,425	25,427
REIMBURSABLE	213	221	221	221
TOTAL AF	253,161	262,943	262,443	261,680
DIRECT	193,340	207,281	207,267	205,595
REIMBURSABLE	59,821	55,662	55,176	56,085

DEPARTMENT OF THE AIR FORCE  
MILITARY BANDS  
FY 1990 / FY 1991 PRESIDENT'S BUDGET

	FY 1988	FY 1989	FY 1990	FY 1991
<u>Number of Bands</u>				
CONUS	17	17	17	17
Overseas	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>
Total	20	20	20	20

<u>Military Personnel</u>				
Officers	32	32	32	32
Enlisted	<u>1,100</u>	<u>1,100</u>	<u>1,100</u>	<u>1,100</u>
Total	1,132	1,132	1,132	1,132

( in Thousands )

<u>Annual Performances</u>				
Military Retention, On Base	6.3	6.0	5.7	5.8
Recruiting, Off Base	2.0	2.3	2.8	2.6
Community Relations, Off Base	<u>2.8</u>	<u>2.8</u>	<u>2.6</u>	<u>2.7</u>
Total	11.1	11.1	11.1	11.1

# AIR FORCE BANDS

(\$ in Millions)

	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
<u>Resource Requirements</u> <u>by Appropriation</u>				
Military Personnel	\$ 34.6	\$ 35.8	\$ 37.1	\$ 38.3
Operation & Maintenance, Air Force	6.2	6.4	6.7	6.9
Operation & Maintenance, Air Force Reserve	.4	.4	.4	.5
<b>Total</b>	<b>\$ 41.2</b>	<b>\$ 42.6</b>	<b>\$ 44.2</b>	<b>\$ 45.7</b>

## Justification

Air Force bands perform a multifaceted mission of recruiting, internal entertainment programs supporting retention, military ceremonies, official White House, Congressional, and State Department functions, nationwide community relations programs, and preserving and promoting our national heritage. The dollar increases from FY 1988 through FY 1991 reflect projected military pay raises and inflation. There is no real growth programmed for this timeframe.

AF MWR FY90/91 OP-34 EXHIBIT

Appropriated Fund Support Of Morale, Welfare, and Recreation Activity Category Summary (\$ In Thousands)

FY88	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Mil Personnel	Mil Construction
Total Category A.	214,034.1	146,997.0	846.1	4,589.4	336.5	54,639.9	6,625.2
Total Category B.	50,325.3	42,934.6	0.0	806.6	101.1	2,143.0	4,340.0
Total Category C.	65,112.7	51,674.0	751.3	1,373.1	203.8	10,810.8	299.7
Total Category D.	28,221.1	25,954.3	0.0	534.6	1,655.6	76.6	0.0
Total FY88	357,693.2	267,559.9	1,597.4	7,303.7	2,297.0	67,670.3	11,264.9
FY89	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Mil Personnel	Mil Construction
Total Category A.	232,721.2	156,353.9	1,225.0	11,529.2	1,144.6	52,468.5	10,000.0
Total Category B.	63,150.1	58,912.7	471.0	884.6	541.8	2,340.0	0.0
Total Category D.	70,530.0	51,989.3	1,525.0	981.3	988.3	15,046.1	0.0
Total FY89	366,401.4	267,256.0	3,221.0	13,395.1	2,674.7	69,854.6	10,000.0
FY90	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Mil Personnel	Mil Construction
Total Category A.	242,314.3	160,663.2	1,706.0	12,502.2	1,235.0	56,207.9	10,000.0
Total Category B.	64,627.8	60,036.1	617.0	957.1	454.7	2,562.9	0.0
Total Category D.	71,925.3	52,810.6	1,146.0	1,061.7	1,000.5	15,906.5	0.0
Total FY90	378,867.3	273,509.8	3,469.0	14,521.0	2,690.2	74,677.3	10,000.0
FY91	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Mil Personnel	Mil Construction
Total Category A.	276,638.8	191,508.5	1,422.0	13,984.9	1,553.9	58,169.5	10,000.0
Total Category B.	79,809.6	75,109.4	572.0	988.7	563.9	2,575.6	0.0
Total Category D.	33,865.8	17,519.2	0.0	0.0	0.0	16,346.6	0.0
Total FY91	390,314.2	284,137.1	1,994.0	14,973.6	2,117.8	77,091.7	10,000.0

# FY88 Summary

## Category A:

### Mission Sustaining

	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Mil Personnel	Mil Construction
Common Spt Services	132,628.3	97,528.9	846.1	3,480.8	283.5	30,489.0	0.0
Physical Fitness	45,342.5	24,628.0	0.0	274.3	16.8	16,223.4	4,200.0
Libraries	16,414.1	15,569.2	0.0	550.1	0.0	294.8	0.0
Recreation Centers	19,580.9	9,202.6	0.0	284.2	36.2	7,632.7	2,425.2
AF Central Welfare Fund	53.7	53.7					
AF Central Special Fund	14.6	14.6					
Total Category A	214,034.1	146,997.0	846.1	4,589.4	336.5	54,639.9	6,625.2

Note: Common Services includes appropriated fund support for MAJCOM Welfare Fund, Recreation Services, NAF Procurement Services, NAF Financial Management, Personnel Services Staff, Chief MWR and Staff, Other Support Function, and NAF Inspection Services

## Category B: Basic Community Support Acty

	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Mil Personnel	Mil Construction
Arts & Crafts Skills	9,948.6	9,273.2	0.0	203.0	44.4	428.0	0.0
Automotive Crafts Skills	7,816.8	7,286.1	0.0	159.5	34.9	336.3	0.0
Child Development Ctrs	15,256.5	10,755.1	0.0	160.6	0.0	0.8	4,340.0
Outdoor Recreation	7,620.0	6,574.1	0.0	108.7	17.1	920.1	0.0
Rec Swimming Pools	2,105.4	1,816.5	0.0	30.0	4.7	254.2	0.0
Youth Activities	7,578.0	7,229.6	0.0	144.8	0.0	203.6	0.0
Total Category B	50,325.3	42,934.6	0.0	806.6	101.1	2,143.0	4,340.0



Category C: Community Support	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Mil Personnel	Construction	Mil
Bowling (12 lanes or less)	1,999.9	1,999.4	0.0	0.2	0.0	0.3		0.0
Mil Open Mess Clubs	50,719.5	39,176.7	751.3	1,228.0	199.4	9,364.1		0.0
Rec Equip Checkout	9,911.1	9,350.6	0.0	109.3	0.0	451.2		0.0
Rec Info Tickets & Tours	2,419.8	1,137.3	0.0	35.1	4.4	943.3		299.7
Civilian Welfare Fund	62.4	10.0	0.0	0.5	0.0	51.9		0.0
Total Category C	65,112.7	51,674.0	751.3	1,373.1	203.8	10,810.8		299.7

Category D: Business Activities	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Mil Personnel	Construction	Mil
Aero Clubs	283.6	268.0	0.0	15.6	0.0	0.0		0.0
Armed Services Exchange	6,607.4	6,597.6	0.0	5.8	0.0	4.0		0.0
Other Resale & Revenue	181.1	181.1	0.0	0.0	0.0	0.0		0.0
Bowling (over 12 lanes)	10,213.9	8,709.4	0.0	198.1	1,305.7	0.7		0.0
Golf Courses	8,165.9	7,514.5	0.0	267.7	349.3	34.4		0.0
Civ Base Restaurants	163.4	163.4	0.0	0.0	0.0	0.0		0.0
Marinas	300.6	259.5	0.0	4.2	0.6	36.3		0.0
Theaters	1,232.9	1,219.0	0.0	13.9	0.0	0.0		0.0
Package Store Class VI	532.2	531.4	0.0	0.3	0.0	0.5		0.0
All oth Mbr Associations	80.3	66.7	0.0	13.6	0.0	0.0		0.0
Other Military Programs	459.8	443.7	0.0	15.4	0.0	0.7		0.0
Total Category D	28,221.1	25,954.3	0.0	534.6	1,655.6	76.6		0.0

# FY89 Summary

## Category A: Mission Sustaining

	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Personnel	Mil Construction
Common Spt Services	101,878.1	58,142.0	535.0	9,709.8	711.0	22,780.3	10,000.0
Physical Fitness	54,398.6	33,777.6	614.0	591.5	226.9	19,188.6	0.0
Libraries	20,541.5	19,230.7	0.0	835.7	64.2	410.9	0.0
Recreation Centers	25,810.9	15,111.5	76.0	392.2	142.5	10,088.7	0.0
AF Central Welfare Fund	56.0	56.0	0.0	0.0	0.0	0.0	0.0
AF Central Special Fund	15.3	15.3	0.0	0.0	0.0	0.0	0.0
Total Indirect Support	30,020.9	30,020.9	0.0	0.0	0.0	0.0	0.0
Total Category A	232,721.2	156,353.9	1,225.0	11,529.2	1,144.6	52,468.5	10,000.0

Note: Common Services includes appropriated fund support for MAJCOM Welfare Fund, Recreation Services, NAF Procurement Services, NAF Financial Management, Personnel Services Staff, Chief MWR and Staff, Other Support Function, and NAF Inspection Services

## Category B: Basic Community Support Acty

	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Personnel	Mil Construction
Arts & Crafts Skills	17,731.1	16,365.3	7.0	340.5	128.8	889.5	0.0
Automotive Crafts Skills	4,268.6	4,203.7	0.0	0.0	45.7	19.2	0.0
Bowling (12 Lanes or Less)	2,818.6	2,818.2	0.0	0.0	0.4	0.0	0.0
Child Development Ctrs	14,693.5	14,430.9	0.0	169.3	92.5	0.8	0.0
Civilian Welfare Fund	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Marinas wo/Res & Priv Slips	325.4	324.2	0.0	0.0	1.2	0.0	0.0
Outdoor Recreation	11,235.5	9,257.3	164.0	209.8	226.7	1,377.7	0.0
Rec Info Tickets & Tours	75.4	75.4	0.0	0.0	0.0	0.0	0.0
Rec Swimming Pools	1,592.5	1,290.9	300.0	0.0	1.6	0.0	0.0
Youth Activities	9,842.7	9,609.1	0.0	165.0	44.9	23.7	0.0
I & R Open Messes	566.5	537.4	0.0	0.0	0.0	29.1	0.0
Total Category B	63,150.1	58,912.7	471.0	884.6	541.8	2,340.0	0.0

Category D: Business Activities	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Mil Personnel	Construction	Mil
Aero Clubs	83.1	78.1	0.0	0.0	5.0	0.0		0.0
Armed Services Exchange	10,056.1	6,338.7	0.0	0.0	292.0	3,425.4		0.0
Other Resale & Revenue	67.1	67.1	0.0	0.0	0.0	0.0		0.0
Bowling (over 12 lanes)	4,218.8	4,141.8	0.0	0.0	77.0	0.0		0.0
Civ Base Restaurants	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Military Open Mess Clubs	43,863.4	30,683.1	1,519.0	874.8	471.3	10,315.2		0.0
Golf Courses	2,581.6	2,453.6	0.0	0.0	57.0	71.0		0.0
Rec Equip Checkout	8,229.6	6,829.6	6.0	106.5	53.0	1,234.5		0.0
Marinas w/Resale & Priv Sti	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Theaters	1,127.6	1,102.6	0.0	0.0	25.0	0.0		0.0
Package Store Class VI	137.8	132.8	0.0	0.0	5.0	0.0		0.0
All oth Mbr Associations	104.7	101.7	0.0	0.0	3.0	0.0		0.0
Other Military Programs	60.1	60.1	0.0	0.0	0.0	0.0		0.0
Total Category D	70,530.0	51,989.3	1,525.0	981.3	988.3	15,046.1		0.0

#### FY90 Summary

Category A: Mission Sustaining	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Mil Personnel	Construction	Mil
Common Spt Services	105,713.3	59,540.8	673.0	10,503.6	681.4	24,314.5	10,000.0	
Physical Fitness	57,220.6	34,635.9	954.0	640.0	344.8	20,645.9		0.0
Libraries	21,123.2	19,707.4	0.0	904.2	69.0	442.6		0.0
Recreation Centers	27,114.7	15,636.6	79.0	454.4	139.8	10,804.9		0.0
AF Central Welfare Fund	55.2	55.2	0.0	0.0	0.0	0.0		0.0
AF Central Special Fund	15.6	15.6	0.0	0.0	0.0	0.0		0.0
Total Indirect Support	31,071.7	31,071.7	0.0	0.0	0.0	0.0		0.0
Total Category A	242,314.3	160,663.2	1,706.0	12,502.2	1,235.0	56,207.9	10,000.0	

Note: Common Services includes appropriated fund support for MAJCOM Welfare Fund, Recreation Services, NAF Procurement Services, NAF Financial Management, Personnel Services Staff, Chief MWR and Staff, Other Support Function, and NAF Inspection Services

Category B: Basic Community Support Acty	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Mil Personnel	Mil Construction
Arts & Crafts Skills	18,143.5	16,663.7	8.0	368.4	76.8	1,026.6	0.0
Automotive Crafts Skills	4,335.9	4,283.8	0.0	0.0	31.5	20.6	0.0
Bowling (12 Lanes or Less)	2,886.5	2,886.1	0.0	0.0	0.4	0.0	0.0
Child Development Ctrs	14,839.1	14,616.9	0.0	183.2	38.1	0.9	0.0
Civilian Welfare Fund	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Marinas w/Res & Priv Slips	330.6	329.3	0.0	0.0	1.3	0.0	0.0
Outdoor Recreation	11,997.0	9,450.1	609.0	227.0	249.8	1,461.1	0.0
Rec Info Tickets & Tours	78.2	78.2	0.0	0.0	0.0	0.0	0.0
Rec Swimming Pools	1,382.4	1,378.0	0.0	0.0	4.4	0.0	0.0
Youth Activities	10,077.6	9,822.0	0.0	178.5	52.4	24.7	0.0
I & R Open Messes	556.6	527.6	0.0	0.0	0.0	29.0	0.0
Total Category B	64,627.8	60,036.1	617.0	957.1	454.7	2,562.9	0.0

Category D: Business Activities	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Mil Personnel	Mil Construction
Aero Clubs	85.7	80.7	0.0	0.0	5.0	0.0	0.0
Armed Services Exchange	10,305.1	6,444.8	0.0	0.0	315.0	3,545.3	0.0
Other Resale & Revenue	66.9	66.9	0.0	0.0	0.0	0.0	0.0
Bowling (over 12 lanes)	4,321.2	4,238.2	0.0	0.0	83.0	0.0	0.0
Civ Base Restaurants	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Military Open Mess Clubs	43,390.0	31,040.4	0.0	946.5	444.5	10,958.6	0.0
Golf Courses	2,946.1	2,889.1	0.0	0.0	57.0	0.0	0.0
Rec Equip Checkout	9,341.5	6,624.7	1,139.0	115.2	60.0	1,402.6	0.0
Marinas w/Resale & Priv Sli	7.0	0.0	7.0	0.0	0.0	0.0	0.0
Theaters	1,152.5	1,125.5	0.0	0.0	27.0	0.0	0.0
Package Store Class VI	141.4	135.4	0.0	0.0	6.0	0.0	0.0
All oth Mbr Associations	106.4	103.4	0.0	0.0	3.0	0.0	0.0
Other Military Programs	61.4	61.4	0.0	0.0	0.0	0.0	0.0
Total Category D	71,925.3	52,810.6	1,146.0	1,061.7	1,000.5	15,906.5	0.0

# FY91 Summary

## Category A: Mission Sustaining

	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Mil Personnel	Mil Construction
Common Spt Services	117,830.5	70,246.9	685.0	10,850.2	943.8	25,104.6	10,000.0
Physical Fitness	67,462.6	44,125.1	655.0	1,153.3	361.3	21,167.9	0.0
Libraries	27,717.8	25,499.4	0.0	1,419.5	99.2	699.7	0.0
Recreation Centers	31,519.8	19,529.0	82.0	561.9	149.6	11,197.3	0.0
AF Central Welfare Fund	57.5	57.5	0.0	0.0	0.0	0.0	0.0
AF Central Special Fund	15.6	15.6	0.0	0.0	0.0	0.0	0.0
Total Indirect Support	32,034.9	32,034.9	0.0	0.0	0.0	0.0	0.0
Total Category A	276,638.8	191,508.5	1,422.0	13,984.9	1,553.9	58,169.5	10,000.0

Note: Common Services includes appropriated fund support for MAJCOM Welfare Fund, Recreation Services, NAF Procurement Services, NAF Financial Management, Personnel Services Staff, Chief MWR and Staff, Other Support Function, and NAF Inspection Services

## Category B: Basic Community Support Acty

	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Mil Personnel	Mil Construction
Arts & Crafts Skills	23,522.0	21,990.7	10.0	380.6	157.8	982.9	0.0
Automotive Crafts Skills	4,740.9	4,683.8	0.0	0.0	35.7	21.4	0.0
Bowling (12 Lanes or Less)	3,637.6	3,637.2	0.0	0.0	0.4	0.0	0.0
Child Development Ctrs	18,668.2	18,429.7	0.0	189.2	48.4	0.9	0.0
Civilian Welfare Fund	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Marinas wo/Res & Priv Slips	346.0	344.6	0.0	0.0	1.4	0.0	0.0
Outdoor Recreation	13,990.3	11,421.4	562.0	234.5	256.8	1,515.6	0.0
Rec Info Tickets & Tours	81.5	81.5	0.0	0.0	0.0	0.0	0.0
Rec Swimming Pools	1,466.8	1,463.0	0.0	0.0	3.8	0.0	0.0
Youth Activities	12,796.9	12,527.2	0.0	184.4	59.6	25.7	0.0
I & R Open Messes	559.3	530.2	0.0	0.0	0.0	29.1	0.0
Total Category B	79,809.6	75,109.4	572.0	988.7	563.9	2,575.6	0.0

Category D: Business Activities	Total Operations	Operations & Maint	O&M Reserves	RDT&E	Other Procur	Mil Personnel	Mil Construction
Aero Clubs	78.2	78.2	0.0	0.0	0.0	0.0	0.0
Armed Services Exchange	10,394.3	6,739.1	0.0	0.0	0.0	3,655.2	0.0
Other Resale & Revenue	68.7	68.7	0.0	0.0	0.0	0.0	0.0
Bowling (over 12 lanes)	1,477.2	1,477.2	0.0	0.0	0.0	0.0	0.0
Civ Base Restaurants	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Military Open Mess Clubs	16,034.7	4,792.5	0.0	0.0	0.0	11,242.2	0.0
Golf Courses	761.7	761.7	0.0	0.0	0.0	0.0	0.0
Rec Equip Checkout	3,694.5	2,245.3	0.0	0.0	0.0	1,449.2	0.0
Marinas w/Resale & Priv Sli	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Theaters	1,045.4	1,045.4	0.0	0.0	0.0	0.0	0.0
Package Store Class VI	137.8	137.8	0.0	0.0	0.0	0.0	0.0
All oth Mbr Associations	109.6	109.6	0.0	0.0	0.0	0.0	0.0
Other Military Programs	63.8	63.8	0.0	0.0	0.0	0.0	0.0
Total Category D	33,865.8	17,519.2	0.0	0.0	0.0	16,346.6	0.0

Department of the Air Force  
External Public Affairs Activities  
FY 1990/FY 1991 President's Biennial Budget  
(Dollars in Thousands)

DATE: January 1989

	FY 1988				FY 1989			
	End Strength	Limitation	Pay Raise	Total	End Strength	Limitation	Pay Raise	Total
Operation and Maintenance	77	2,926	34	2,960	73	3,644	102	3,746
Military Personnel	227	9,764	134	9,898	214	9,724	271	9,995
Total	304	12,690	168	12,858	287	13,368	373	13,741

	FY 1990				FY 1991			
	End Strength	Limitation	Pay Raise	Total	End Strength	Limitation	Pay Raise	Total
Operation and Maintenance	73	4,040	39	4,079	76	4,061	59	4,120
Military Personnel	215	10,030	366	10,396	215	10,592	356	10,948
Total	288	14,070	405	14,475	288	14,653	415	15,068

Narrative Justification

FY 1989 to FY 1990: Increases are primarily due to pay raises, annualized pay raises and an increase in the workyear utilization rate from 95% to 98%. There is also an increase of \$108 for travel to provide for additional Air Force exhibition vans to travel to schools, fairs and air shows.

FY 1990 to FY 1991: Increases are due to pay raises.

REIMBURSABLE PROGRAM  
(DOLLARS IN THOUSANDS)

Sales Code	Title	FY 88 Actual	FY 89 Est	FY 90 Est	FY 91 Est
<b>Federal</b>					
10	Aircraft Procurement	\$1,372	\$1,427	\$1,478	\$1,527
12	Missile Procurement	319	332	344	355
13	Other Procurement	10,785	11,216	11,615	12,004
15	Military Construction	881	916	949	981
16	Operation and Maintenance - AF	1,430	1,487	1,540	1,592
17	Military Personnel	14,783	15,315	15,862	16,409
18	RDT&E	113,128	117,653	121,839	125,911
19	Reserve Personnel	1,443	1,495	1,548	1,602
22	Operation and Maintenance - ANG	196,375	104,230	211,496	218,565
23	National Guard Personnel - AF	19	20	20	21
24	Operation and Maintenance - AFR	105,886	110,121	114,039	117,851
30	MAP - Direct Citation	71	74	76	79
31	MAP - Common Item Orders-Definitized	3	3	3	3
32	MAP - Administrative	823	856	886	916
36	International Military Trng & Educ-IMET	7,510	7,810	8,088	8,359
39	Intrafund Reimbursements	123,938	128,896	133,481	137,943
42	Fuels Division - AFSF	72	72	65	68
43	Commissary Division - AFSF	293	305	316	326
48	Laundry & Dry Cleaning Svc - AFIF	569	592	613	633
49	Airlift Service - AFIF	191,541	199,203	206,290	213,185
51	0700 Family Housing - Def	1,041	1,083	1,121	1,159
52	5700 Family Housing - Def	148,660	154,606	160,107	165,459
54	Wildlife Conser - Mil Reservation	2	2	2	2
56	General Gift Fund - AF	6	6	6	7
58	Commissary Surcharge Collections	8,686	9,033	9,355	9,668
60	Medical-Dental Division - AFSF	5	5	5	6



**REIMBURSABLE PROGRAM  
(DOLLARS IN THOUSANDS)**

<u>Sales Code</u>	<u>Title</u>	<u>FY 88 Actual</u>	<u>FY 89 Est</u>	<u>FY 90 Est</u>	<u>FY 91 Est</u>
61	General Support Division - AFSF	100	104	108	111
63	Depot Maintenance Service - AFIF	72,241	75,131	77,804	80,404
65	Systems Support Division - AFSF	7,917	8,234	8,527	8,812
80	Department of the Army	39,440	41,018	42,477	43,897
81	Department of the Navy	49,895	51,891	53,737	55,533
82	OSD & Defense Agencies, Except DSA	137,195	142,683	147,759	152,698
83	Defense Supply Agency-Scrap, Salvage	1,310	1,362	1,411	1,458
84	Defense Supply Agency - Other	12,902	13,418	13,895	14,360
85	NASA	59,374	61,749	63,946	66,083
86	Other Federal Agencies	112,265	116,756	120,909	124,951
87	Off-Budget for Federal Agencies	123	128	132	137
88	Marines	1,418	1,475	1,527	1,578
89	Trash & Waste Recycle Program	367	382	395	408
91	Non-Appropriated Fund Activities	16,415	17,072	17,679	18,270
	<b>TOTAL</b>	<b>1,440,603</b>	<b>1,498,159</b>	<b>1,551,452</b>	<b>1,603,330</b>

<u>Trust Fund</u>					
69	SARPMA - AFIF	1,924	2,001	2,072	2,141
72	FMS Liquidation	3,601	3,745	3,878	4,008
73	Advances, FMS Executive	196,157	204,003	211,261	218,323
74	Advances, FMS Administrative	72,059	74,941	77,608	80,202
76	FMS - Additives	15,638	16,264	16,842	17,405
78	FMS - Reimb-NO-OA	32,093	33,377	34,564	35,720
	<b>TOTAL</b>	<b>321,472</b>	<b>334,331</b>	<b>346,225</b>	<b>357,798</b>

<u>Non-Federal</u>					
90	Foreign Gov & International Oper	13,599	14,143	14,646	15,136
92	American Red Cross	13	14	14	14
93	Commercial Enterprises & Individuals	36,067	37,510	38,844	40,143

		REIMBURSABLE PROGRAM (DOLLARS IN THOUSANDS)			
<u>Sales Code</u>	<u>Title</u>	<u>FY 88 Actual</u>	<u>FY 89 Est</u>	<u>FY 90 Est</u>	<u>FY 91 Est</u>
98	Other Non-US-Govt Agencies	2,413	2,510	2,599	2,686
99	Cash Sales (Stock & Industrial Funds)	95	99	102	106
	TOTAL	52,187	54,274	56,205	58,084
	Total APPN 3400 Operation and Maintenance	1,814,262	1,886,765	1,953,882	2,019,213

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

This exhibit is provided as an attempt to track Contractor Support costs by Weapon System for FY88 through FY91. Costs reflect funding as supported in the FY90 President's Budget for Active Air Force O&M. Preparation of this exhibit has been difficult since normal budgeting and execution is by program element, not by weapon system supported.

Several areas of support costs can't be tracked by weapon system. This is especially true for Depot Maintenance exchangeables workload which consists of thousands of individual items (coded by stock number) and many of these items are common to several weapon systems. Contract Depot Maintenance costs thus reflect aircraft, missile, and engine programmed depot maintenance work only. No Contract exchangeable repair costs are identified by weapon system.

Finally, it should be emphasized that this exhibit lists "contractor" costs only and does not reflect a total weapon system cost. A large cost of most weapon systems is worked with organic depot and base level maintenance personnel as well as government furnished material.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	Ind. Fund	O&M or FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: B-52					
SUSTAINING ENGINEERING	O&M	14.4	14.1	10.0	9.6
CONTRACT ENGINEER TECH SVCS	O&M	1.8	.6	2.6	2.7
CONTRACTOR LOGISTICS SUPPORT	O&M	10.3	11.2	23.7	22.8
INTERIM CONTRACT SUPPORT	O&M	11.3	13.0	5.6	3.3
DEPOT MAINTENANCE	IF	2.8	.4	1.7	.5
WEAPON SYSTEM TOTAL		40.6	39.3	43.6	38.9

**Sustaining Engineering:** Support includes feasibility studies on proposed or directed modifications; integration, analysis, and liaison on all sub-systems on the B-52 such as missiles, fire control, electronic counter measures (ECM), offensive avionics system (OAS), etc; conduct investigations and provide corrective action on materiel improvement projects; maintain engineering data and drawings; support accident/incident investigation and assistance to inflight emergencies; support flight tests; OAS system support, AN/ALQ-153 hardware support, AN/ALQ-172(V) electronic warfare software support, and other software support. Funding is slightly reduced as the OAS Block II update moves into the testing and integration phase.

**Contract Engineering Technical Services (CETS):** CETS is provided for intermediate level automated manual system, AN/ASQ-151 electro-optical viewing system, AN/ASQ-38(V) bomb navigation system, and Offensive Avionics System and associated support equipment. The decrease in the program results from the phase out of CETS for the intermediate level automated manual system.

**Contractor Logistics Support (CLS):** CLS provides for training device computer support, data analysis programming group, and operational and intermediate training device support. CLS support increases as the 341xx training device military technician career field is phased out in favor of contracted support.

**Interim contract Support (ICS):** ICS is provided for the Integrate Conventional Stores Management System (ICSMS), strategic radar modification, Cannon Strategic Rotary Launcher, the B-52 Modular Intermediate

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Depot Automatic Test Set (MIDATS), and the ALQ-172(V) Electronic Countermeasures System. Reductions result from the phaseout of strat radar and ALQ-172 ICS requirements.

Depot Maintenance: This funding profile shows a decrease in contract modification installation funding in FY 1989 based on different modifications ending in FY 1989 and other modifications beginning installation in FY 1990 with a decreasing quantity in FY 1991.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: SHORT RANGE ATTACK MISSILE (SRAM)					
SUSTAINING ENGINEERING	O&M	7.4	5.4	6.3	5.9
CONTRACT ENGINEER TECH SVCS	O&M	.1	.2	.2	.2
WEAPON SYSTEM TOTAL		7.5	5.6	6.5	6.1

Sustaining Engineering: Support includes System Integration Laboratory (SIL) and system engineering support. SIL contractor support permits investigation of service revealed deficiencies through duplication of reported faults and testing of proposed solutions. System engineering support provides skills to solve problems such as corrosion on the missile case, system testing inadequacies, motor propellant aging surveillance, flight test anomaly investigation, and electromagnetic interference/pulse test.

Contract Engineering Technical Services (CETS): CETS will provide testing, analysis and software development required to support SRAM as part of the Air Force inventory. Lack of CETS support would impact Single Integrated Operation Plan (SIOP) capability. CETS support is critical to the identification and correction of deficiencies in the system.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: AIR LAUNCHED CRUISE MISSILE					
SUSTAINING ENGINEERING	O&M	13.5	7.8	11.2	8.6
CONTRACT ENGINEERING TECH SVCS	O&M	.7	.4	.7	.7
DEPOT MAINTENANCE (Engines Only)	IF	7.0	4.9	4.2	3.4
WEAPON SYSTEM TOTAL		21.2	13.1	16.1	12.7

Sustaining Engineering: Contract support is for updating peculiar ALOM simulation software, retest OK investigation, service revealed deficiencies investigation, investigation of anomalies discovered during operational test flights, and investigation of potential improvements to the ALOM mission planning software. FY 90 includes resolution of retest OK problems where high retest OK rates on all levels of ALOM system software are occurring.

Contract Engineering technical Services (CETS): Provides engineering and technical support, testing, analysis and software development required to support ALOM. CETS is critical to the identification and correction of deficiencies in the system.

Depot Maintenance: Reflects the engines programmed for Contract Depot Maintenance. The decreases in FY90/91 reflect the ongoing effort to repair these ALOM engines organically versus by contract.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: B-1B					
SUSTAINING ENGINEERING	O&M	0	19.4	78.7	84.2
CONTRACT ENGINEER TECH SVCS	O&M	8.3	7.9	3.0	2.9
CONTRACTOR LOGISTICS SUPPORT	O&M	.3	4.9	21.7	22.2
INTERIM CONTRACT SUPPORT	O&M	106.0	93.5	92.9	93.7
DEPOT MAINTENANCE	IF	8.8	6.2	2.7	1.1
WEAPON SYSTEM TOTAL		123.4	131.9	199.0	204.1

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

**Sustaining Engineering:** Sustaining Engineering is required for mission critical programs that include Survivability/Vulnerability, Reliability and Maintainability Assessment, Aircraft Structural Integrity, Stores Compatibility, Mechanical Systems and Components, Electrical Systems and Components, Avionics, Automated Test Equipment, Software Support, and aircrew training device compatibility with the weapon system. Initial sustaining engineering is provided in FY89 with full year support beginning in FY90. (This program was previously funded in RDT&E and Procurement appropriations.) Significant increases are for systems engineering and avionics support. FY91 includes expanded support on the AN/ALQ-161A electronic warfare system hardware.

**Contract Engineering Technical Services (CETS):** CETS are required for peculiar support equipment orientation and includes avionics test equipment and secondary power equipment.

**Contractor Logistics Support (CLS):** CLS for the B-1B simulator system includes support for the Offensive/Defensive Station Mission Trainers, Software Support Center Equipment, Cockpit Procedures Trainers, Data Base Transportation System, associated data, services, and facilities. Increase is required due to loss of organic capability with the phaseout of the 341XX career field.

**Interim Contractor Support (ICS):** Support is provided for peculiar support equipment and an inventory of 99 aircraft at 4 operating bases. Funding decreases as organic capability is developed. System should become organic in FY92/93.

**Depot Maintenance:** The Birdstrike Survivability safety modification completes installation in FY 1989. The decrease of contract funding through FY 1991 is due to this aircraft moving "in-house" and maintenance/modification installation performed organically.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: Classified Programs					
INTERIM CONTRACTOR SUPPORT	O&M	0	0	42.1	40.8
CONTRACTOR LOGISTICS SUPPORT	O&M	172.5	170.1	23.3	7.1
WEAPON SYSTEM TOTAL		172.5	170.1	65.4	47.9

Interim Contractor Support (ICS): Contract efforts include all required depot, intermediate, and organizational level support costs for new or recently upgraded systems.

Contractor Logistics Support (CLS): Contract efforts include programmed depot maintenance, contractor field support, and operation of supply activities supporting the depot and operating locations.



AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: KC-135					
SUSTAINING ENGINEERING	O&M	4.4	4.3	6.4	3.8
CONTRACTOR LOGISTICS SUPPORT	O&M	.9	1.8	2.8	5.6
INTERIM CONTRACT SUPPORT	O&M	.4	0	0	0
DEPOT MAINTENANCE	IF	64.4	65.6	71.5	84.7
WEAPON SYSTEM TOTAL		70.2	71.7	80.7	94.1

**Sustaining Engineering:** Support includes developing new damage tolerance criteria. The engineering emphasis is on aircraft structural integrity program and systems engineering. The FY90 increase results from one-time incorporation of KC-135R peculiar tasking requirements previously funded through the re-engine program into the -135 fleet support requirements.

**Contractor Logistics Support (CLS):** Support is provided for the C-135B mission flight simulator (MFS) and the KC-135A/R Operational Flight Trainers (OFT). It includes contractor operated and maintained base supply (COMBS), parts exchange, field support, and bench stock for the simulators/trainers. The increase is due to the loss of organic capability due to the phaseout of the 341XX career field.

**Interim Contractor Support (ICS):** ICS was required to support the KC-135 tanker re-engine/modernization program until spares, depot support equipment and technical orders were developed and delivered. FY88 was the last year of support.

**Depot Maintenance:** This provides for Programmed Depot Maintenance (PDM), modification installation, and other maintenance of the KC-135s, including KC-135A/D/E/Q/R.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: MINUTEMAN					
SUSTAINING ENGINEERING	O&M	86.8	86.5	75.1	63.3
CONTRACT ENGINEER TECH SVCS	O&M	.7	.7	.8	.8
CONTRACTOR LOGISTICS SUPPORT	O&M	12.7	13.3	8.8	9.1
INTERIM CONTRACTOR SUPPORT	O&M	0	.2	.2	0
DEPOT MAINTENANCE	IF	83.0	91.5	94.9	49.9
WEAPON SYSTEM TOTAL		183.2	192.2	179.8	123.1

Sustaining Engineering: Support includes several sustaining engineering efforts. One effort provides engineering/technical services required to support the operational fleet in the missile guidance set and flight controls. Another contract is for the development, production, and delivery of test program sets designed to test the electronic drawers of the Minuteman operational ground equipment and maintenance ground equipment. Another contract provides weapon system engineering support in response to delivery order work assignments to resolve problems encountered at operational wings, system requirement analyses, accomplish systems and hardware studies on aerospace ground equipment, operational ground equipment, depot maintenance ground equipment, Hill Engineering Test Facility, and aerospace vehicle equipment. Another contract is an on-going engineering effort to maintain and modify the operational Minuteman weapon system. Software support provides engineering to develop code and checkout Minuteman III operational ground program in support of the expanded execution plan; modify the operational executive program and the nuclear safety technical evaluation on the Minuteman; and modify the Minuteman III operation and support software. FY89 includes completion of software modifications related to hardware modifications not accomplished in FY88 due to funding constraints.

Contract Engineering Technical Services (CETS): Provides integration for all modified software developed by various contractors and modify appropriate trainers to be compatible with the modified operational software. Also includes contract field support at six Minuteman bases consisting of reliability studies of the missile guidance sets and training of Air Force personnel.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Contractor Logistics Support (CLS): Support is provided for the Expanded Missile Data Analysis System (EMDAS) and the Minuteman Trainer. BMDAS is used to gather missile maintenance and inertial performance data.

Interim Contract Support (ICS): Contractor provides support for 26M-30 MF radius until organic repair capability is achieved.

Depot Maintenance: Contactor provides support to the Minuteman II and III stage II motor washout program as well as testing stage I motors for the "life extension" program. Contractor support also includes evaluation of the Hardness Surveillance Program (HSP). This program was developed to test components in the field and perform field inspections with nuclear experts to evaluate survival maintenance programs to assure survivability of the Minuteman II and III during nuclear attacks. Contract sources also provide direct support of the SPLICE CASE FORCE modification which corrects deficient cable design and installation, severe cable corrosion and problems associated with an aging missile launch and control infrastructure. Increases in FY 89/90 are due to a concerted effort to finish the SPLICE CASE FORCE modification by taking advantage of contractor negotiated costs and reduced quantity buys as well as decreasing the risk associated with deteriorated launch and launch control equipment. The corresponding decrease in FY 91 is based on SPLICE CASE FORCE completion.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: PEACEKEEPER (LGM-118)					
SUSTAINING ENGINEERING	O&M	0	1.0	30.8	37.5
CONTRACT ENGINEER TECH SVCS	O&M	.9	.4	.4	.6
CONTRACTOR LOGISTICS SUPPORT	O&M	6.1	12.9	14.0	15.8
INTERIM CONTRACT SUPPORT	O&M	3.8	6.2	.3	0
DEPOT MAINTENANCE	IF	0	.9	.9	.9
WEAPON SYSTEM TOTAL		10.8	21.4	46.4	54.8

Sustaining Engineering: Program Management Responsibility Transfer (PMRT) from AFSC to AFLC in FY89 includes support for integrated assessment of reliability, maintainability, aging and surveillance, accuracy, availability and nuclear hardness. Full PMRT is accomplished in FY90. Support includes

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

survivability/vulnerability program, assessment, system engineering and technical assistance, ordinance engineering, mechanical engineering, electrical engineering, and software support.

Contract Engineering Technical Services (CETS): Provides services on new support and test equipment through FY89 which includes specific force integral receiver, depot support equipment, inertial measurement unit, third generation gyro, guidance and control, arming/fuzing, and reentry. Contract Field Support at the one Peacekeeper Base is continued in FY90/91.

Contractor Logistics Support (CLS): Provides support for the Peacekeeper trainers and related repair/servicing including contractor operated/maintained base supply (COMBS), parts exchange, field support, and bench stock. Instrumentation and Flight Safety System (IFSS) support begins in FY89 and consists of vehicle-borne tracking, safety, telemetry and data acquisition devices of the Airborne Vehicle Equipment (AVE), and Support Equipment comprised of ground-based test and data processing equipment.

Interim Contractor Support (ICS): Provides support for depot repair of missile components, AVE, and support equipment. This weapon system is experiencing guidance and control system failures in excess of organic repair capability. ICS requirement decreases as maintenance support equipment items are delivered.

Depot Maintenance: Work includes major unprogrammed maintenance of LGM-118A missiles in the launch environment and responses to requests for depot level assistance. This will include removal and replacement of all operational reentry systems, failed missile stages, and operational test missiles.

TYPE OF SUPPORT	O&M or		FY 1988	FY 1989	FY 1990	FY 1991
	Ind.	Fund				
WEAPON SYSTEM: EC-135 WABNCP (WORLDWIDE AIRBORNE COMMAND POST)						
SUSTAINING ENGINEERING			1.3	.2	.7	2.3
INTERIM CONTRACT SUPPORT			1.5	2.1	1.3	1.6
DEPOT MAINTENANCE		IF	2.7	11.0	13.4	4.4
WEAPON SYSTEM TOTAL			5.5	13.3	15.4	8.3

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Sustaining Engineering: Support includes electromagnetic compatibility (EOM) engineering, frequency management, and EMC measurement support of the World-Wide Airborne Command Post (WVABNCP) system program office. Also included is engineering support for aspects of nuclear survivability, system engineering and integration support, and conducting cost/technical trade studies to project, initiate, review, and implement WVABNCP operations and maintenance requirements. Increase is for long range planning, modification planning and Digital Airborne Intercommunications Switching System (DAISS) integration support facility.

Interim Contractor Support (ICS): Support is provided for six EC-135 systems including the Ground Wave Emergency Network (GWEN), KG-84A, Pacer Link I&II, EC-135 Peacekeeper, WIM, and WVABNCP ADP. ICS is required to provide repair components until organic maintenance is available. Pacer Link I operational and intermediate level ICS is required only through FY89, but depot level ICS is required through FY90.

Depot Maintenance: Installation of the Pacer Link modification on the EC-135 (Worldwide Airborne Command Post) begins in FY 1989 and completes in FY 1990. This causes the significant increase of funding in those years.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: DEFENSE SUPPORT PROGRAM					
SUSTAINING ENGINEERING	O&M	0	.2	.2	.2
CONTRACT ENGINEERING TECH SVCS	O&M	0	4.8	5.2	5.0
INTERIM CONTRACT SUPPORT	O&M	.4	1.7	0	0
WEAPON SYSTEM TOTAL		.4	6.7	5.4	5.2

Sustaining Engineering: Support is required for failure investigations, testing, studies, specifications development, systems tests, and engineering change proposals on system hardware of the DSP ground systems.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Contract Engineering Technical Services (CETS): Provides proficiency training, technical guidance in the evaluation of unusual field problems, and emergency technical assistance. FY90 increase is due to the deferral of some FY89 proficiency training requirements to FY90 due to funding constraints.

Interim Contractor Support (ICS): Required for commercial computer hardware and program unique software. Upgrades to the systems included in the DSP are being accomplished over such a short timeframe that the support equipment, tech data, and spares cannot keep pace. ICS is needed for spares support and support equipment until organic capability is developed for FY90.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: F-106					
SUSTAINING ENGINEERING	O&M	0	.1	.3	0
WEAPON SYSTEM TOTAL		0	.1	.3	0

Sustaining Engineering: Contractual engineering efforts will be conducted on keeping the F-106/QF-106 safe to fly and operationally supportable. Primary emphasis is placed on safety analysis where the contractor will discover and evaluate by laboratory analysis the cause of the mishap. This action will assure flight safety and support the actions of Safety Investigation Boards (SIB) and Materiel Safety Task Groups (MSTG). Effort will be completed in FY90.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: F-4 and RF-4					
SUSTAINING ENGINEERING	O&M	6.4	4.2	6.0	8.6
CONTRACT ENGINEER TECH SVCS	O&M	2.0	1.2	2.0	2.0
CONTRACTOR LOGISTICS SUPPORT	O&M	6.3	9.0	11.8	12.0
INTERIM CONTRACT SUPPORT	O&M	.3	1.1	.9	1.2
DEPOT MAINTENANCE	IF	18.2	20.1	20.3	22.5
WEAPON SYSTEM TOTAL		33.2	35.6	41.0	46.3

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

**Sustaining Engineering:** Includes engineering services in the area of structural, electrical, mechanical, and fluid design; hardware and software avionics; aerodynamics, aircraft/stores compatibility, thermodynamics, and propulsion technical integration; stress, weights, structural dynamics, material and processes, and load engineering technology; system/nuclear safety analysis; mishap investigation, program coordination; on-site data collections, analysis of field conditions, and assistance in development of computer programs for reliability centered maintenance program; and feasibility studies, and flight manual maintenance support. Other contract support includes development of both operational and support equipment software for the replacement of inertial navigation system modification; providing software maintenance of the ALQ-99E avionics system test program sets; reliability update and modification of the ARN-101 dynamic simulation area and the ARN-101 static test stand; provide F-4E/G weapon system training set/trainer weapon system aircraft ARN-101 and DLRJ-10 operational flight program updates; evaluate and tested F-4 flight simulator modifications; provide data reduction software, assist in defining flight test procedures, analyze and document offensive flight program problem solutions on the AN/ARN-101; provide hardware and software engineering support of the Avionics Integrated Support Facility (AISF); provide support for new Warning Receiver Automatic Test Equipment and software; modify TEREC system operational flight program, T-PEP, and TYQ-2 software to support hardware modification for encryption for simulator aircraft compatibility modifications for AN/APR-38 control indicator set, analog radar landmass F-4E/G, visual system update, and miscellaneous trainer peculiar quick modifications. Increase support electronic warfare hardware through redesign of shop repairable units for obsolete parts, APR-38 operational flight program (OFP) update of simulation software, automatic test equipment hardware engineering, and avionics integration facility OFP support.

**Contract Engineering Technical Services (CETS):** Provides technical services for airframe support equipment, AN/ALQ-186(V), and PAVE TACK pod in support of the F-4. Also provides proficiency training, technical guidance in the evaluation of unusual field problems, and emergency technical assistance.

**Contractor Logistics Support (CLS):** Support is provided for F-4E/G Weapon Systems Trainers and Operational Flight Trainers. Includes contractor operated and maintained base supply, parts exchange and transportation, field support, bench stock, and modification installations. There are nineteen F-4 weapon system trainers at seven sites being supported. This support coincides with Ready For Training of

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

the Flight Simulator Upgrade Program. The Technical Software Support Center also falls under CLS. The increase is due to the phaseout of the 341XX military technician career field.

Interim Contractor Support (ICS): Includes depot level repair services and replenishment contractor acquired property (CAP) under the PAVE TACK program. The AAQ-9, AVQ-25, and AVQ-26 are components of the PAVE TACK target acquisition system. Also provides support for the RF-4C Navigation Weapons Delivery System (NWDS) consisting of depot level repair required following completion of trial installation of the NWDS. Contractor has repair responsibility until warranty expires.

Depot Maintenance: Although the F-4E inventory phasedown occurs throughout this time period and there are no scheduled contract F-4E PDMs past FY 1988, the F-4G PDM quantity increases in FY 1989 based on aircraft PDM schedules. Also, safety modifications for the remaining inventory continue based on the age of this aircraft. Routine contract engine maintenance is also included.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: F-111/FB-111/EF-111					
SUSTAINING ENGINEERING	O&M	19.7	19.5	21.5	20.2
CONTRACT ENGINEER TECH SVCS	O&M	2.3	2.1	1.7	1.7
CONTRACTOR LOGISTICS SUPPORT	O&M	9.1	8.6	10.9	11.3
INTERIM CONTRACT SUPPORT	O&M	15.3	18.2	22.3	23.8
DEPOT MAINTENANCE	IF	71.7	92.0	100.5	110.5
WEAPON SYSTEM TOTAL		118.1	140.4	156.9	167.5

Sustaining Engineering: Tasks include investigation and evaluation of the background and circumstances concerning accidents/incidents and service revealed deficiencies; conduct feasibility studies, special studies, and studies of modifications; conduct system and subsystem tests to determine operational capability and efficiency; prepare new/revised drawings; provide for engineering services in identifying and resolving high demand rates and low mean time between failures (MTBF) on the AN/APQ-110/128/134/ 146



AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

terrain following radar; install the AN/ARC-190 high frequency single side band radio in the F-111 weapon system trainers; provide Independent Validation and Verification (IVV) assessment of the Unit Under Test (UUT), test program sets, and associated support software; assessment of the new or modified automatic test equipment hardware, support equipment, and software manufactured for the F-111 Avionics Intermediate Shops (AIS); and provide IW of software and software/hardware integration for the Block Update number one (BUN 1) modification to the EF/F/FB-111 simulators and F/FB-111 software support centers.

Contract Engineering Technical Services (CETS): Technical services provided include intermediate automatic test equipment, aircraft avionics system and avionics modernization program system. Reduced funding in FY90 results in the loss of needed technical expertise and continuous contact with the prime manufacturer and numerous subvendors.

Contractor Logistics Support (CLS): Includes contractor operated and maintained base supply, parts exchange/transportation, field support, bench stock, and modification installations on the F-111A/D/E/F, EF-111A, and FB-111A weapon system trainers. Increase is due to the loss of organic capability resulting from the phaseout of the 341XX career field.

Interim Contractor Support (ICS): Support is provided for the F-111 Tactical Jamming System (TJS), the AN/APQ-169 Attack Radar Set, the AN/APQ-171 Terrain Following Radar, the Digital Flight Control systems, the ALQ-99 receiver/transponder, the ALQ-137 countermeasures system, and the F-111 Avionics Intermediate Shop-Replacement (AIS-R). The decrease is related to the development of limited organic capability as support equipment and data are delivered. Organic capability is not projected to be fully developed until mid FY93 for the Digital Flight Control Systems and the end of FY95 for the AIS-R when support equipment and data are delivered.

Depot Maintenance: The increase between FY 1988 and FY 1989 is primarily due to the F-111E PDM quantity increase - some aircraft did not undergo PDM in FY 1988 due to funding shortfalls based on fiscal constraints.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY			
		1988	1989	1990	1991
WEAPON SYSTEM: F-15					
SUSTAINING ENGINEERING	O&M	10.5	12.1	15.4	16.1
CONTRACT ENGINEER TECH SVCS	O&M	5.7	3.6	3.7	3.7
CONTRACTOR LOGISTICS SUPPORT	O&M	4.6	11.7	12.9	19.0
INTERIM CONTRACT SUPPORT	O&M	4.7	18.6	16.0	15.7
DEPOT MAINTENANCE	IF	24.4	27.2	29.0	30.3
WEAPON SYSTEM TOTAL		49.9	73.2	77.0	84.8

Sustaining Engineering: Provides technical support for USAF radar Operational Flight Programs; tests the response of the APG-63 operational flight program to foreign electric counter-measures (ECM); develops block cycle changes to F-15 central computer and radar data processor operational flight programs; supports the avionics integrated support facility; provides aircraft stores compatibility; supports a full-scale vibration program for the F-15 vertical stabilizers; and provides flight test data on the force and strain levels. FY90 increase is due to software support to AMRAAM module deficiencies. FY91 increase is software support for the Unit Under Test (UUT) test program through development of Dynamic Tester design requirements.

Contract Engineering Technical Services (CETS): Includes avionics test equipment, avionics integrated support specification rada (APG-63), aircraft secondary power, F100/F200 engine fuel air accessibility, TF39/T56 integrated blade inspection of F100 engine, field/depot level avionics manual test system, data communication terminal, integrated communication control panels, F100 engine retirement cause, support on the F100PW100, PW200, PW220 engine systems.

Contractor Logistics Support (CLS): Provides contractor maintenance for F-15A/B operational flight trainers two F-15C/D operational flight trainers and one F-15E weapon system trainer. CLS for these trainers include contractor operated and maintained base supply, parts exchange and transportation, field support, bench stock, and modification installations. The increase in CLS results from the loss of

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

organic capability due to the phaseout of the 341XX career field. Program decreases in FY 90/91 with F-15A/B simulators going out of system.

Interim Contractor Support (ICS): Includes repair requirements on F-15s with the Multi-Stage Improvement Program (MSIP) modification. Prime equipment design instability and the resultant delay in depot support equipment development drives the need for ICS. ICS is also provided for the Tactical Electronic Warfare System (TBWS), the TBWS Intermediate Support System (TISS), and the F-15E Integrated Antenna Test Station (IATS). The FY91 increase is related to the full year support to the IATS which begins in Mar 90. The FY90 increase from the IATS program is offset by the reduction of the TBWS ICS requirements.

Depot Maintenance: Although the F-15 PDM program begins in FY 1989, much unscheduled maintenance was performed on the aircraft in FY 1988 along with modification installations. Therefore, there is no significant increase between FY 1988 and FY 1989. Contract engine maintenance is also included.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: A-10					
SUSTAINING ENGINEERING	O&M	5.9	5.0	4.0	3.5
CONTRACTOR ENGINEER TECH SVCS	O&M	1.8	1.6	1.4	1.4
CONTRACTOR LOGISTICS SUPPORT	O&M	.3	7.8	2.8	3.7
DEPOT MAINTENANCE	IF	0.8	.9	.1	1.2
INTERIM CONTRACT SUPPORT	O&M	.2	0	0	0
WEAPON SYSTEM TOTAL		9.0	15.3	8.3	9.8

Sustaining Engineering: Provide contractor assistance for the service life monitoring program (SLMP). Service revealed deficiencies and safety related defects undergo intensive analytical engineering studies to identify the proximate cause of the problems. Flight test includes instrumentation support, data reduction support, engineering analysis support. LASTE engineering range support, and target support. The decrease reduces updates to the damage tolerance analysis program.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Contract Engineering Technical Service (CETS): Provides technical services on systems and equipment associated with the A-10. These include TF-34-GE-100 engine, KC-135 turbine engine monitoring system (TEMS) airborne electronics, KC-135R TEMS intermediate and depot level repair support equipment, and A-7D/K.AN/AAS-35(V) target identifier. Decrease in FY91 is due to termination of the TF-34-GE-100 engine contract.

Contractor Logistics Support (CLS): Provides contractor support for A-10 operational flight trainers and includes contractor operated and maintained base supply, parts exchange and transportation, field support, bench stock, and modification installations.

Interim Contractor Support (ICS): Includes repair and maintenance on the Inertial Navigation System and Inertial Navigation Unit within the A-10. Organic capability was established in Mar 88 when intermediate level support equipment was received.

Depot Maintenance: The increase in FY 1991 is due to a safety modification (Conductive Fuel Foam) beginning installation. The A-10 does not have a PDM program - this aircraft is driven into the facilities for modification installations and other unscheduled maintenance programs. Routine contract engine maintenance is also included.

TYPE OF SUPPORT	O&M or Ind. Fund	FY			
		1988	1989	1990	1991
WEAPON SYSTEM: F-16					
SUSTAINING ENGINEERING	O&M	17.7	13.8	11.7	14.4
CONTRACT ENGINEER TECH SVCS	O&M	4.6	3.1	4.4	4.4
CONTRACTOR LOGISTICS SUPPORT	O&M	4.0	9.2	8.3	9.5
INTERIM CONTRACT SUPPORT	O&M	5.2	7.8	13.7	34.1
DEPOT MAINTENANCE	IF	.3	1.6	3.9	3.5
WEAPON SYSTEM TOTAL		31.8	35.5	42.0	65.9

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

**Sustaining Engineering:** Provides engineering assistance to evaluate proposed changes, explore alternate solutions, and implement desirable alternatives to the F-16 radar (AN/APG-66), semi-conductor parts control analysis, and avionics system engineering. Provides engineering services for analysis of reported material deficiency reports, teardown deficiency reports, mechanical systems engineering, stores certification, and the aircraft structural integrity program. Also included is software engineering support for the operational flight program, avionics intermediate shop and depot software support. Increase is due to planned mid-life updates modifications that have been identified and additional radar test bench and radar threat generator support.

**Contract Engineering Technical Services (CETS):** Provides technical services for airframe escape system landing gear equipment, fly by wire electronic control, flight simulations, and ejection seats. On-site proficiency training, technical guidance and advice is provided to operational field commands.

**Contractor Logistics Support (CLS):** Provides support for the F-16A/B Operational Flight Trainer (OFT) and the F-16C/D weapon system trainer. Operational support includes contractor operated and maintained base supply, parts exchange and transportation, field support, bench stock, and modification installations. Full year funding for the F-16C/D VST begins in FY89. Funding level changes between FY89/90 and FY90/91 are driven by modification installations.

**Interim Contractor Support (ICS):** Support provides for repair of avionics systems, exchangeables, and support equipment. Funding increases as programmed deliveries increase the number of F-16s in the Air Force inventory to be supported because no organic repair of Block 40/50 improvements capability.

**Depot Maintenance:** The increases shown between FYs 1988-1990 are due to new modifications scheduled to be installed throughout those years. The most significant modification is a safety mod - the Wing Beef Up which begins installation in FY 1989 with full production installation occurring in FY 1990. This aircraft does not currently have a scheduled PDM program. The major workload on these aircraft is modification installation and other maintenance. Routine contract engine maintenance is included.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

<u>TYPE OF SUPPORT</u>	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
<b>WEAPON SYSTEM: TACTICAL AIR-TO-AIR INTERCEPT MISSILES (AIM-7 &amp; AIM-9)</b>					
SUSTAINING ENGINEERING	O&M	.0	1.1	.4	2.6
CONTRACT ENGINEER TECH SVCS	O&M	.3	.1	.1	.1
<b>WEAPON SYSTEM TOTAL</b>		.3	1.2	.5	2.7

Sustaining Engineering: Contract support includes performance testing of the aged AIM-7 Sparrow explosive components (rocket motors, warheads, and fuzing components). FY89 testing expands to include the AIM-9. Increase is due to initiation of new tasks involving missile reliability improvements, power supply and test set equipment development and enhancement.

Contract Engineering Technical Support (CETS): Provides technical services for the AIM-9E/J/L/M/N/P, LAU-114, AIM-7a support equipment.

<u>TYPE OF SUPPORT</u>	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
<b>WEAPON SYSTEM: TACTICAL AIR-TO-GROUND MISSILES (AGM-45 &amp; AGM-78)</b>					
SUSTAINING ENGINEERING	O&M	.1	.5	.4	2.6
CONTRACT ENGINEER TECH SVCS	O&M	.0	.1	.1	.0
<b>WEAPON SYSTEM TOTAL</b>		.1	.6	.5	2.6

Sustaining Engineering: Provides AGM missile components reliability tests and analysis. This support assures any degradation affecting system readiness is detected and corrected before the Tactical Air Forces mission capability is impaired. Contract support is a joint venture with the Navy who has executive management responsibility for the AGM-45 and AGM-78. Increase is due to significant software development and systems engineering efforts involved with HARM system reliability and performance enhancement programs.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Contract Engineering Technical Support (CETS): Provides technical services for the AGM-45 & AGM-78 support equipment.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: TR-1					
CONTRACTOR LOGISTICS SUPPORT	O&M	70.4	72.0	95.1	100.5
WEAPON SYSTEM TOTAL		70.4	72.0	95.1	100.5

Contractor Logistics Support (CLS): Provides total logistics support for the TR-1. Includes contractor depot maintenance, flight test, field support, engineering support and special repair activities in support of TR-1 missions. Also includes support for ground stations.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: F-5					
SUSTAINING ENGINEERING	O&M	.8	.5	.3	0
CONTRACT ENGINEERING TECH SVCS	O&M	.1	0	0	0
CONTRACTOR SUPPORT	O&M	5.2	5.2	0	0
DEPOT MAINTENANCE	IF	.2	.5	0	0
WEAPON SYSTEM TOTAL		6.3	6.2	.3	0

Sustaining Engineering: Contract support includes aircraft structural integrity program (ASIP) and systems engineering. ASIP specifically includes usage updates and force structural maintenance plan. Decrease results from completion of usage data update and no anticipated structural repairs or modifications in FY90/91.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Depot Maintenance: This aircraft is being phased out of the inventory and thus the depot maintenance workload is decreased.

Contractor Support: Reflects programmed phase-out of the F-5 aircraft from the Active O&M inventory.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
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WEAPON SYSTEM: KC-10  
CONTRACTOR LOGISTICS SUPPORT  
WEAPON SYSTEM TOTAL

	O&M	61.6	75.2	82.5	81.3
		61.6	75.2	82.5	81.3

Contractor Logistics Support (CLS): Support includes contractor operated and maintained base supply, flying hour support, base activation, out of scope support, engineering support, and modification installations.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
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WEAPON SYSTEM: A-7  
SUSTAINING ENGINEERING  
INTERIM CONTRACT SUPPORT  
WEAPON SYSTEM TOTAL

	O&M	1.1	.7	.8	.8
	O&M	0	0	.7	.7
		1.1	.7	1.5	1.5

Sustaining Engineering: Support includes certification of external stores resulting from the development of new stores and changing roles and missions. Support is provided for modification studies, engineering investigations, accident investigations, engineering analysis of failures and defects, compatibility analysis, flight testing, ballistic table generation/safe escape analysis, ballistic tape verifications, and stores loading data.



AIR FORCE - ACTIVE O&M  
SUMMARY OF SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Interim Contractor Support (ICS): ICS will be used to support the A-7 Corsair Avionics System Tester (CAST) while organic support is being developed. It will provide on-site repair/overhaul services and in-plant depot level maintenance. Verified tech orders will be delivered with each test system. Delivery schedule for FY90 and MTBF-VT will commence six months after. This effort will continue into FY91.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: MAVERICK (AGM-65) MISSILE					
SUSTAINING ENGINEERING	O&M	.8	.4	2.9	1.9
DEPOT MAINTENANCE		.1	.1	.1	.1
WEAPON SYSTEM TOTAL		.9	.5	3.0	2.0

Sustaining Engineering: Support includes continued maintenance of the G300B data system and data analysis and increased reliability of the TGM-65A/B through modification improvements. FY90 increase is to incorporate the LAJ-88/A launcher data into the G300B data collection system for failure analysis and system assessment. FY91 decrease reflects completion of the launcher incorporation effort.

Depot Maintenance: Contractor support for periodic inspection of up-round missiles in extended storage. If these inspections indicate a requirement to repair either the hydraulic actuating system (HAS) or the guidance and control system (G&C), these components are removed and forwarded to the depot for repair.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: ANRAAM					
CONTRACT ENGINEER TECH SVCS	O&M	0	.1	.4	.4
INTERIM CONTRACTOR SUPPORT	O&M	0	.9	1.5	3.3
WEAPON SYSTEM TOTAL		0	1.0	1.9	3.7

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Interim Contractor Support (ICS): The Advanced Medium Range Air-to-Air Missile (AMRAAM) has been designated a major acquisition program currently in the full scale development phase of acquisition. The AMRAAM will be introduced into the inventory for deployment beginning the first quarter FY90. It will be used on the F-14, F-15, F-16, and F-18. Until an organic facility is established in FY94, ICS must be used.

Contract Engineer and Technical Services: Reflects increased contractor support as the AMRAAM becomes deployed worldwide.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: GROUND LAUNCHED CRUISE MISSILE (BGM-109)					
SUSTAINING ENGINEERING	O&M	2.6	4.4	6.5	6.5
CONTRACT ENGINEERING TECH SVCS	O&M	4.7	5.5	1.2	0
CONTRACTOR LOGISTICS SUPPORT	O&M	19.9	15.0	15.0	5.2
DEPOT MAINTENANCE	IF	2.0	0	0	0
OTHER	O&M	.8	.5	.5	0
WEAPON SYSTEM TOTAL		30.0	25.4	23.2	11.7

Sustaining Engineering: Support is initiated to include developing the reliability analysis/tracking program. Requirements also include Nuclear Safety Cross-Check Analysis and Independent Validation and Verification of the nuclear critical components of the GLOM software and firmware. The Intermediate Nuclear Forces (INF) Treaty has changed the emphasis to engineering support of the system drawdown and destruction. The increase reflects expanded software engineering support.

Contract engineering Technical Services (CETS): Provides contract field services for GLOM weapon system.

Contractor Logistics Support (CLS): Provides management services, contractor acquired property, and depot repair of missiles at continental United States (CONUS) locations. The decrease is a net effect

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

whereby recertifications, test support, and unscheduled maintenance costs decrease dramatically due to the INF Treaty and subsequent drawdown, while the implementation and support for the Regency Network is initiated.

Other: Reflects CONUS contractor support and training.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or</u> <u>Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: ARM					
INTERIM CONTRACTOR SUPPORT	O&M	0	0	0	3.1
WEAPON SYSTEM TOTAL		0	0	0	3.1

Interim Contractor Support (ICS): The Anti-Radiation Missile (ARM) decoy missiles by emulating the radar's transmission characteristics. ARM decoy consists of a central control unit, three emitters and a fiber optic link. ICS will be for depot level repair of the ARM decoy. Repair parts needed for repair capability for the decoy will not be available at the turnover date (Apr 91). ICS will be needed until organic depot level repair is established in FY96.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or</u> <u>Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: ALQ-131					
INTERIM CONTRACTOR SUPPORT	O&M	0	4.5	10.3	11.2
WEAPON SYSTEM TOTAL		0	4.5	10.3	11.2

Interim Contractor Support (ICS): Contract support is required for the AN/ALQ-131 Block II EOM POD and the ALQ-131 Receiver Processor. The ALQ-131 Block II pods are externally mounted on frontline fighter aircraft and used to jam enemy threats. ICS is required to support the pod system (including support equipment) for total maintenance and logistics. The ALQ-131 Receiver Processor is a module to enhance

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

the capability of the Block II EOM pods. The receiver processor recognizes enemy threats, prioritizes and selects between them and concentrates jamming power against the highest priority threat. ICS funds are also required pending development of an organic depot level maintenance capability. Due to numerous design changes to meet the ever changing electronic counter measures (ECM) threat environment it is more economical early in the life of this system to retain contractor support versus develop an organic support that becomes obsolete almost immediately.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
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WEAPON SYSTEM: HARPOON MISSILE					
DEPOT MAINTENANCE	IF	.1	.9	.6	.8
WEAPON SYSTEM TOTAL		.1	.9	.6	.8

Depot Maintenance: Contractor support for increased number of AGM-84 (Harpoon) recertifications and improved fuze modification.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
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WEAPON SYSTEM: E-3					
SUSTAINING ENGINEERING	O&M	4.4	4.6	11.7	4.8
CONTRACT ENGINEER TECH SVCS	O&M	.5	.2	.6	.6
CONTRACTOR LOGISTICS SUPPORT	O&M	.4	0	0	0
INTERIM CONTRACT SUPPORT	O&M	.5	.5	.5	1.0
OTHER	O&M	2.3	2.3	2.3	2.3
WEAPON SYSTEM TOTAL		8.1	7.6	15.1	8.7

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

**Sustaining Engineering:** Supports the E-3 aircraft and the AN/APY-1 and AN/APY-2 control surveillance radar. Contract support provides materiel deficiency report evaluations, system engineering assistance, conducts investigations and feasibility studies, generates engineering change proposals for radar reliability and maintainability improvements, maintenance, upkeep of radar engineering facility subsystem, complete radar monitor software tool and provide E-3 software correlation, software support for the E-3 navigational computer system to include special studies of software deficiencies and coding changes to fix the problem, and update to operational software. Tasks include initial support of Electronic Support Systems enhancement to the E-3, redesign of the Life Cycle Support Facility test stand, and software modifications for printed circuit card update and related software changes to update the navigation system. The increase is due to replacement and modification of mission avionics test equipment.

**Contract Engineering Technical Services (CETS):** Includes engineering technical services for AWACS communication functional group hardware, AN/APY-1 and AN/APY-2 NATO surveillance radar, new start on NATO, PEACH Sentinel APAX 103 system. Efforts are completed in FY89.

**Contractor Logistics Support (CLS):** Contractor support is required for the Electronic Support System (ESS) which is a low density, high priority classified system in 34 E-3 aircraft for enhancing surveillance capability.

**Interim Contractor Support (ICS):** Provides repair and maintenance support to the E-3A and E-3A Joint Tactical Information Distribution System (JTIDS) of those items which have not been transitioned to Air Logistics Centers. ICS is the only contract which can provide these services until tech data has been delivered to the Air Force. Lack of test program sets and tech data attributed to lack of design stability for JTIDS, therefore, keeping this program under ICS. FY89/90 decrease is a result of significant workload being accepted organically.

**Other:** Contractor maintenance for numerous sub-systems on the E-3 at the organizational and intermediate levels. Funded by the using command.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: OV-10					
SUSTAINING ENGINEERING	O&M	0	.2	.2	.2
DEPOT MAINTENANCE (Engine Only)	IF	2.1	2.2	1.4	2.1
WEAPON SYSTEM TOTAL		2.1	2.4	1.6	2.3

Sustaining Engineering: FY89 support includes teardown inspection of major components, safety investigations, and reliability/maintainability efforts in support of the OV-10. The increase in FY90 is in support of OV-10 propeller system modification to a fiberglass bladed propeller.

Depot Maintenance: Reflects the engines programmed for Contract Depot Maintenance. Due to aircraft scheduling only 26 OV-10 engines are programmed in FY90 vs 44 in FY89 and 39 in FY91.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: E-9A (AIRBORNE PLATFORM/TELEMETRY RADAR)					
CONTRACTOR LOGISTICS SUPPORT	O&M	.4	1.1	1.1	1.1
WEAPON SYSTEM TOTAL		.4	1.1	1.1	1.1

Contractor Logistics Support (CLS): Contractor support is required for maintenance of the E-9A. The E-9A (formerly Airborne Platform/Telemetry Relay System) is part of the Gulf Range upgrade. The system will provide the instrumentation necessary to support low altitude testing over the Gulf range and in support of DT&E, OT&E and Weapon System Evaluation Program (MSEP). Two commercial off-the-shelf/FAA certified aircraft will be procured and modified/configured to incorporate instrumentation subsystems including: sea surveillance radar and datalink subsystem, UHF voice communication subsystem, and TM relay subsystem.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY			
		1988	1989	1990	1991
WEAPON SYSTEM: LANTIRN PTT (LOW ALTITUDE NAVIGATION AND TARGETING INFRARED SYSTEM FOR NIGHT PART TASK TRAINER)					
CONTRACTOR LOGISTICS SUPPORT	O&M	.1	.4	3.5	4.6
INTERIM CONTRACT SUPPORT	O&M	.4	2.6	2.1	2.4
WEAPON SYSTEM TOTAL		.5	3.0	5.6	7.0

Contractor Logistics Support (CLS): Provides contractor operated and maintained base supply, parts exchange/transportation, field support, bench stock, and other maintenance. LANTIRN part task trainers will be used to train pilots in the modes of operation, switchology, and symbology required to operate LANTIRN. Contract support is required due to the phaseout of the 341XX military maintenance technician career field.

Interim Contractor Support (ICS): Provides repair of fielded navigation pods associated with LANTIRN. The LANTIRN FCS pods are to be produced for F-16C/D and F-15E aircraft. ICS will provide for set up and repair of LANTIRN Intermediate Test Stations, plus the repair of SRUs and LRUs at the Intermediate and Depot level. The projected Support Equipment delivery date of the first set of SE to field units is Feb 89. full organic capability at the intermediate level is projected for Aug 90, with full depot level organic capability projected for FY92 on the navigation pods and FY93 on the targeting pods. Depot level Sustaining Engineering and Technical Orders will be phased into the depot between Jan 90 and Dec 91 for the navigation pods and between Jan 91 and Dec 92 for the targeting pods.

TYPE OF SUPPORT	O&M or Ind. Fund	FY			
		1988	1989	1990	1991
WEAPON SYSTEM: OA-37 INSTRUMENT FLIGHT TRAINERS (IFT)					
CONTRACTOR LOGISTICS SUPPORT	O&M	.2	.2	.3	.3
DEPOT MAINTENANCE	IF	0	.4	0	0
WEAPON SYSTEM TOTAL		.2	.6	.3	.3

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Contractor Logistics Support (CLS): Provides maintenance support due to the phase-out of 341XX military technician career field. The OA-37 IFT (A/F37A-T4D) is used to train OA-37 pilots.

Depot Maintenance: The FY 1989 requirement is a scheduled maintenance program of the wing spar.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: TACTICAL CRYPTOLOGIC ACTIVITIES					
CONTRACTOR LOGISTICS SUPPORT	O&M	35.7	37.0	43.6	48.2
WEAPON SYSTEM TOTAL		35.7	37.0	43.6	48.2

Contractor Logistics Support (CLS): Includes modifications, field service support, engineering services, maintenance on the U-2/TR-1 aircraft dedicated for this mission, support to Senior Ruby ground control processor, repairs of Interoperable Ground Data Link components, support of RTASS Interface Module (RIM) III, and support for the Transportable Ground Intercept Facility (TGIF). The growth is due to new deployment of TGIF and Tactical Radar Intercept Ground Section Stations.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: E-4					
SUSTAINING ENGINEERING	O&M	1.6	1.6	1.6	1.6
CONTRACTOR LOGISTICS SUPPORT	O&M	21.3	21.9	22.2	21.3
WEAPON SYSTEM TOTAL		22.9	23.5	23.8	22.9

Sustaining Engineering: Contract support provides survivability/vulnerability analysis of services publications, modifications, mission changes, service revealed deficiencies, up-to-date data files, in-flight emergency engineering support, investigations and corrective action through engineering change



AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

proposals on avionics, support and operation of the system integration laboratory for the E-4B embedded computer systems software, system engineering support, and long range planning.

Contractor Logistics Support (CLS): Includes contractor operated and maintained base supply, exchange of serviceable items for repairable, field support for complex problem solving and technical advice, incorporation of time compliance technical orders, technical data distribution, corrosion control, emergency repairs, modification installations, and other support functions. FY89 increase is for modification installations with a communication enhancement as the primary requirement.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: MILSTAR					
INTERIM CONTRACTOR SUPPORT	O&M	0	0	1.2	2.8
WEAPON SYSTEM TOTAL		0	0	1.2	2.8

Interim Contractor Support (ICS): MILSTAR is a multi-service staellite communications system that will provide worldwide communication and control in a severe jamming environment. ICS is required for this phase of MILSTAR to support an approved mod for MILSTAR UHF transition terminals. Automatic Test Equipment (MATE) and tech data will not be available for the transition terminal frequency range for a period of time.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: GLOBAL POSITIONING SYSTEM					
CONTRACT ENGINEER TECH SVCS	O&M	.1	.5	.1	.1
CONTRACTOR LOGISTICS SUPPORT	O&M	.3	.5	.5	.5
INTERIM CONTRACT SUPPORT	O&M	0	.2	.9	1.0
WEAPON SYSTEM TOTAL		.4	1.2	1.5	1.6

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Contracting Engineering Technical Services (CETS): CETS are provided for the Global Positioning System and includes support on the FSQ-141, 132, 178, and FSN-4 equipment. The Air Force needs contractor technical experts to perform training and consultation to enable maintenance, support and logistics personnel to become sufficient in supporting the GPS Control Segment. Requirement for CETS concludes in FY92.

Contractor Logistics Support (CLS): NAVSTAR GPS is the next generation navigation system and will replace existing systems in the 90's. Systems such as TACAN and LORAN will be decommissioned and not be available for use. The control segment is the ground equipment used to determine satellite orbits and to update the navigation message. HQ USAF has directed the computer system at Falcon AFS be CLS maintained.

Interim Contract Support (ICS): The NAVSTAR GPS was developed to provide worldwide highly precise position, velocity and time information to users. ICS will provide for repair of LRUs determined to be exclusions to contractor warranty through FY92.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988			FY 1989			FY 1990			FY 1991		
WEAPON SYSTEM: RC-135/C-130 (BIG SAFARI)													
DEPOT MAINTENANCE	O&M			135.0		155.6		149.4		145.4			
WEAPON SYSTEM TOTAL				135.0		155.6		149.4		145.4			

The BIG SAFARI program covers 60 special mission RC135 and C130 aircraft. Costs include planned depot maintenance, modification/upgrade installs, contractor field services, and depot support. Annual cost changes are primarily driven by inflation and increase/decrease in the number of PDM's and major modification installs. Certain costs are fleetwide in nature (level of effort) and change with inflation. The schedule below identifies the changes between fiscal years that subsequently impact the funding changes.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988				FY 1989				FY 1990				FY 1991			
		PLANNED DEPOT MAINTENANCE for Big Safari		RC-135		C-130		MOD/PDM Quantities		MOD/PDM Quantities		MOD/PDM Quantities		MOD/PDM Quantities		MOD/PDM Quantities	
WEAPON SYSTEM: T-38	SUSTAINING ENGINEERING	1.7		1.5		1.6		1.6		1.6		1.6		1.6		1.6	
	CONTRACTOR LOGISTICS SUPPORT	.2		.1		.2		.2		.2		.2		.2		.2	
DEPOT MAINTENANCE	IF	20.5		34.0		27.8		27.8		27.8		27.8		27.8		27.8	
	O&M	14.0		24.2		24.2		24.2		24.2		24.2		24.2		24.2	
OTHER		36.4		59.8		53.8		53.8		53.8		53.8		53.8		53.8	
	WEAPON SYSTEM TOTAL																

Sustaining Engineering: Efforts include software engineering modifications as a result of the Auxiliary Air Take Off Door modification increasing aircraft weight. FY88 effort focuses on the Durability and Damage Tolerance Analysis update. Includes a continuation of the damage tolerance analysis and contractor flight loads data recorder program for non-severe usage.

Contractor Logistics Support (CLS): Support is provided for the T-38 Instrument Flight Trainers as a result of the 341XX (simulator maintenance) military career field phase out.

Depot Maintenance: The large increase between FY 1988 and FY 1989 is due in part to the increase in a maintenance Depot Economy Repair Program as well as an increase in a safety modification (Dorsal Longeron

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Mod). The decrease into FY 1990 and FY 1991 is the quantity reduction of the Dorsal Longeron modification installations. Includes routine contract engine maintenance.

Other: Air Training Command organizational level contractor support for flight-line maintenance support (versus normal military mechanics and technicians).

TYPE OF SUPPORT	O&M or Ind. Fund	FY			
		1988	1989	1990	1991
WEAPON SYSTEM: T-37					
SUSTAINING ENGINEERING	O&M	.6	.5	1.4	1.5
DEPOT MAINTENANCE	IF	.1	0	.1	13.0
OTHER	O&M	.2	.2	.2	.2
WEAPON SYSTEM TOTAL		.9	.7	1.7	14.7

Sustaining Engineering: Support includes the durability and damage tolerance analysis update and the aircraft structural integrity program and development of software to be used for the reduction of T-37 MMJ flight loads data recorder data. Contractual support is expanded in FY90/91 to assure the airworthiness and operational capability of the fleet beyond FY2000. Services include alternative part evaluations, quality deficiency analysis, problem investigation and resolution, on-site aircraft mishap support, assessment of damage and design of repairs for damaged aircraft, and instrumentation and data reduction.

Depot Maintenance: The increase in FY 1991 is due to the installation of modifications and the beginning of the Depot Economy Repair Program (DERP). Includes routine contract engine maintenance.

Other: Air Training Command contract simulator support (Link trainers) for student pilot training.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or</u> <u>Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: T-37/T-38 (costs not identifiable to just one system))					
CONTRACTOR LOGISTICS SUPPORT	O&M	0	.2	10.2	9.7
OTHER	O&M	26.1	36.4	72.8	76.0
WEAPON SYSTEM TOTAL		26.1	36.6	83.0	85.7

Contractor Logistics Support (CLS): CLS provides for training device computer support, data analysis programming group, and operational and intermediate training device support. CLS support increases as the 341xx training device military technician career field is phased out in favor of contracted support.

Other: Air Training Command organizational level contractor support for flight-line maintenance support (versus normal military mechanics and technicians). Program increases as additional bases contract out flight line support versus in-house civilian or military technician support. Support costs cannot be tied to just one weapon system since the same contract personnel will work on both aircraft and bench stock can be used to a large extent on both aircraft also.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or</u> <u>Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: T-41					
DEPOT MAINTENANCE (Engine Only)	IF	.5	.5	.4	.4
WEAPON SYSTEM TOTAL		.5	.5	.4	.4

Depot Maintenance: Reflects the engines programmed for Contract Depot Maintenance fluctuating from 34 in FY89 to 21 in FY90, and back to 25 in FY92.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: T-43A					
CONTRACTOR LOGISTICS SUPPORT	O&M	9.0	12.1	11.5	11.1
OTHER	O&M	1.0	1.0	0	0
WEAPON SYSTEM TOTAL		10.0	13.1	11.5	11.1

Contractor Logistics Support (CLS): Provides contractor operated maintained base supply, field support, maintenance data, and parts exchange related to flying hours. 14 aircraft are supported at Mather AFB, CA. The T-43A aircraft serve as navigator trainers for Air Training Command. The FY89 increase is attributable to the planned depot maintenance and engine overhaul cycle which hits every five or six years.

Other: Air Training Command contract simulator support (T-45/T-5 trainers) for student navigator training. Requirement is reduced in FY 90/91 as the Tanker Transport Training System comes on line.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: C-9					
CONTRACTOR LOGISTICS SUPPORT	O&M	12.4	15.1	15.6	13.4
WEAPON SYSTEM TOTAL		12.4	15.1	15.6	13.4

Contractor Logistics Support (CLS): Support includes contractor operated maintained base supply, over and above material support (out of cycle requirements), and planned depot maintenance for the C-9 aircraft. The increases/decreases between years reflect programmed depot maintenance phasing of this small fleet of aircraft which fluctuates from year to year.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

<u>TYPE OF SUPPORT</u>	O&M or Ind. Fund	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: VC-137					
SUSTAINING ENGINEERING	O&M	.1	.5	.5	.5
CONTRACTOR LOGISTICS SUPPORT	O&M	20.6	16.1	15.6	15.5
WEAPON SYSTEM TOTAL		20.7	16.6	16.1	16.0

Sustaining Engineering: C-137 software support associated with the replacement of the URG-1 high frequency radio with the AN/ARC-207 high frequency radio, replacement of the AOC-4 multiplexer with a UHF frequency division multiplexer, replacement of the old switching matrix with state-of-the-art processor controlled switching matrices is begun in FY89.

Contractor Logistics Support (CLS): Includes management services, engineering services, system data, depot maintenance, field support, replenishment bench stock, component overhaul, and technical order updates. Includes intermediate and depot level support. This program is in direct support of the President and Vice President of the United States, cabinet members, and other dignitaries. Five aircraft are supported in FY88: three C-137B and two C-137C. VC-137 support began in FY88 due to the transfer of funding responsibility from the Airlift Support Industrial Fund (ASIF) to the Operations and Maintenance (O&M) appropriation.

<u>TYPE OF SUPPORT</u>	O&M or Ind. Fund	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: C-17					
CONTRACTOR LOGISTICS SUPPORT	O&M	0	0	0	1.6
INTERIM CONTRACT SUPPORT	O&M	0	0	0	6.8
WEAPON SYSTEM TOTAL		0	0	0	8.4

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Contractor Logistics Support (CLS): The C-17 Maintenance Trainers are currently in acquisition. Initial site activation starts in FY91 and continues through FY98. A total of 5 sites will be supported. Contract support will be required due to 341XX military simulator maintenance technician career field phaseout.

Interim Contract Support (ICS): The C-17A is a Douglas aircraft wide body airlift aircraft designed to augment the current Air Force airlift force in both inter-theater and intra-theater operations. ICS will fund depot level repairs, lay-in of expense material, program management services, data services and operation of the contractor operated storage site. The ICS requirements are a yearly option to the acquisition contract. It will allow the contractor to demonstrate that system specifications can be met and that support equipment can support the MAC mission using organic blue suit maintenance. ICS will fund contractor repair of any contractor furnished equipment repairables returned to his facility. Contract repair is required until T.O.'s are available, personnel are trained and support equipment demonstrated capability is accepted and the SE and support for SE are readily available.

TYPE OF SUPPORT	O&M or Ind. Fund	FY			
		1988	1989	1990	1991
WEAPON SYSTEM: C-21A					
CONTRACTOR LOGISTICS SUPPORT	O&M	19.9	18.1	21.6	20.5
WEAPON SYSTEM TOTAL		19.9	18.1	21.6	20.5

Contractor Logistics Support (CLS): Includes maintenance of the 79 C-21As and provides all levels of support: organizational, intermediate, and depot. The contract is based on the number of aircraft, locations, and the number of flying hours. The FY89/90 increase is for maintenance costs due to higher flying hours.



AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: C-23					
CONTRACTOR LOGISTICS SUPPORT	O&M	7.4	7.8	9.8	10.3
WEAPON SYSTEM TOTAL		7.4	7.8	9.8	10.3

Contractor Logistics Support (CLS): Includes contractor operated and maintained base supply, field support, bench stock, maintenance and repair, unplanned maintenance, and modifications. The contract is based on 18 aircraft and the flying hours. Funding changes between years are due to flying hour changes and normal phasing of programmed depot maintenance for this small fleet which fluctuates from year to year.

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: C-22A (SOUTHCOM)					
CONTRACTOR LOGISTICS SUPPORT	O&M	1.9	3.1	2.5	2.6
WEAPON SYSTEM TOTAL		1.9	3.1	2.5	2.6

Contractor Logistics Support (CLS): Includes contractor operated and maintained base supply, field support, data and technical order data, parts replenishment and repair, bench stock, parts transportation, aircraft maintenance and modifications, and engineering services. One aircraft is provided depot level support. The FY89 increase results from increased structural inspection and corrosion control efforts.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

<u>TYPE OF SUPPORT</u>	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: C-12					
CONTRACTOR LOGISTICS SUPPORT	O&M	10.6	13.3	15.7	15.4
WEAPON SYSTEM TOTAL		10.6	13.3	15.7	15.4

Contractor Logistics Support (CLS): Includes maintenance at all levels: organizational, intermediate, and depot. By FY90, 144 aircraft are supported worldwide.

<u>TYPE OF SUPPORT</u>	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: VC-25 AF-1 (AIR FORCE ONE REPLACEMENT)					
CONTRACTOR LOGISTICS SUPPORT	O&M	2.2	7.6	9.5	11.7
WEAPON SYSTEM TOTAL		2.2	7.6	9.5	11.7

Contractor Logistics Support (CLS): Includes program operational planning in support of the contractor operated and maintained base supply and the base activation. Support is required prior to delivery of either of the two new aircraft in FY88 and FY89. FY89 support includes maintenance of replenishment spares and repair, base operations, and final stages of program operational planning and base activation. FY90 decrease reflects completion of one-time FY89 start-up costs.

<u>TYPE OF SUPPORT</u>	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: C-20					
CONTRACTOR LOGISTICS SUPPORT	O&M	15.5	18.0	16.6	16.6
WEAPON SYSTEM TOTAL		15.5	18.0	16.6	16.6

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Contractor Logistic Support (CLS): Includes contractor operated and maintained base supply, parts exchange and transportation, field support, bench stock, other maintenance support, and logistics data. Levels of support include organization, intermediate, and depot. The increase is a result of initial support for C-20B's and the use of full CLS on the C-20A's in Europe.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or</u> <u>Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: C-29					
CONTRACTOR LOGISTICS SUPPORT	O&M	0	.2	4.0	4.0
WEAPON SYSTEM TOTAL		0	.2	4.0	4.0

Contractor Logistic Support (CLS): Includes contractor operated and maintained base supply, parts exchange and transportation, field support, bench stock, other maintenance support, and logistics data. Levels of support include organization, intermediate, and depot.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or</u> <u>Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: C-140					
DEPOT MAINTENANCE (Engine Only)	IF	.3	.8	.4	.4
WEAPON SYSTEM TOTAL		.3	.8	.4	.4

Depot Maintenance: Reflects the engines programmed for Depot Maintenance changing from 11 in FY89 to 6 in FY90 and only 5 in FY91. The FY88-89 growth is due to funding additional engines in FY89 (FY88 only 5 were funded) as a carryover due to funding shortfalls in FY88.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: C-141					
SUSTAINING ENGINEERING	O&M	.4	.3	.3	1.6
CONTRACT ENGINEER TECH SVCS	O&M	.1	.1	0	0
CONTRACTOR LOGISTICS SUPPORT	O&M	0	0	1.6	1.9
DEPOT MAINTENANCE	IF	2.1	.8	.1	.2
WEAPON SYSTEM TOTAL		2.6	1.2	2.0	3.7

Sustaining Engineering: Provides support of Aircraft Structural Integrity Program and Systems Engineering. FY91 increases to resolve problems on the C-141 for fuel shutoff valve actuator, windshield sealing problem, and redesign of the main landing gear support structure.

Contract Engineering Technical Services (CETS): Support is provided for the C-141 center wing repair program.

Contractor Logistics Support (CLS): Provides support of the C-141 Aerial Refueling Part Tasks Trainer (ARPTT). A new start of CLS on the C-141 Aircrew Training Device (ATD) begins in FY89. Contractor support expansion has been scheduled to coincide with the phaseout of the 341XX military simulator maintenance technician career field.

Depot Maintenance: The decrease between FY 1988 and FY 1989 is due to the center wing repair accomplished in FY 1988.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY 1988	FY 1989	FY 1990	FY 1991
WEAPON SYSTEM: C-130					
SUSTAINING ENGINEERING	O&M	1.1	2.0	3.6	3.6
INTERIM CONTRACTOR SUPPORT	O&M	.2	1.6	1.3	4.0
DEPOT MAINTENANCE	IF	11.6	10.2	14.4	13.5
WEAPON SYSTEM TOTAL		12.9	13.8	19.3	21.1

Sustaining Engineering: Provides for a test program to evaluate the conditions and responses of the C-130 engine and propeller systems that occur during the four-engine power loss due to alternating current power fluctuations; C-130 condition assessment/improvement program (CA/IP) to include functional system checks, on aircraft inspections, component testing, teardown, and evaluation.

Interim Contractor Support (ICS): The C-130 Self-Contained Navigation System (SCNS) is comprised of three basic systems - Inertial Navigation System (INS), Doppler Nav System (DNS) and Integrated Control Display Unit (ICDU). ICS will handle all depot repair of the SCNS components which are not presently being maintained/repaired by the USAF. It will allow all maintenance procedures as well as SE software and hardware to mature prior to USAF use. Funding is \$0.1M in FY88 and \$1.6M in FY89. Organize support is developed by FY90.

The C-130 Adverse Weather Aerial Delivery System (AWADS) replacement radar referred to as the Multi-Mode Radar (MMR). ICS will handle all depot repair of the MMR components which are not presently maintained/repaired by the Air Force. Depot and 1-level SE will not be delivered until approximately 15 months after the last installation of the radar in the AWADS aircraft. Funding is \$1.3M in FY90 and \$1.7M in FY91.

ICS will be used to support the C-130 Autopilot Ground Collision Avoidance system until depot repair can be established. The present C-130 autopilot analog technology is obsolete and the system is approaching unsupportable status due to a lack of replacement parts. Funding is \$2.3M in FY91.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Depot Maintenance: The small fluctuations in this program are based on aircraft and engine programmed depot maintenance (PDM) schedules and aircraft modification schedules.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: C-5					
SUSTAINING ENGINEERING	O&M	.3	.9	.9	.9
CONTRACT ENGINEER TECH SVCS	O&M	.5	.5	0	0
CONTRACTOR LOGISTICS SUPPORT	O&M	0	.8	1.7	1.7
WEAPON SYSTEM TOTAL		.8	2.2	2.6	2.6

Sustaining Engineering: Support is primarily for Aircraft Structural Integrity Program and Systems Engineering.

Contract Engineering Technical Services (CETS): Provides proficiency training, technical guidance in the evaluation of unusual field problems, and emergency technical assistance.

Contractor Logistics Support (CLS): Support is for the C-5 Aerial Refueling Parts Tasks Trainer (ARPTT) and the C-5 Maintenance Trainer. The FY89 start reflects the phaseout of the 341XX military simulator maintenance technician career field.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: HH/Q4-3					
DEPOT MAINTENANCE (Engine Only)	IF	.1	.1	0	0
WEAPON SYSTEM TOTAL		.1	.1	0	0

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Depot Maintenance: Reflects the programmed decrease of engines programmed for Depot Maintenance decreasing from 9 in FY88 to only 1 by FY90.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: UH-1H/UH-1N					
DEPOT MAINTENANCE (Engine Only)	IF	1.5	3.2	3.7	3.2
WEAPON SYSTEM TOTAL		1.5	3.2	3.7	3.2

Depot Maintenance: Reflects the engines programmed for Contract Depot Maintenance fluctuating from 37 in FY88 to 76 in FY89, and down to 81 in FY91, and back to 70 in FY92. The increase from FY88 to FY89 was driven primarily by funding shortfalls in FY88 and deferral of work to FY89/90 at some risk to increased MICAPs.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: H/OH-53D					
DEPOT MAINTENANCE (Engine Only)	IF	3.4	4.9	4.8	4.9
WEAPON SYSTEM TOTAL		3.4	4.9	4.8	4.9

Depot Maintenance: Reflects the engines programmed for Contract Depot Maintenance fluctuating from 42 in FY88 to 51 in FY89, and down to 49 in FY91 and FY92. The increase from FY88 to FY89 was driven primarily by funding shortfalls in FY88 and deferral of work to FY89/90 at some risk to increased MICAPs.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: UH-60A					
DEPOT MAINTENANCE (Engine Only)	IF	.1	.1	.1	.2
WEAPON SYSTEM TOTAL		.1	.1	.1	.2

Depot Maintenance: Reflects the engines programmed for Contract Depot Maintenance.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: HH-60D					
DEPOT MAINTENANCE (Engine Only)	IF	.2	.5	.9	1.1
WEAPON SYSTEM TOTAL		.2	.5	.9	1.1

Depot Maintenance: Reflects the programmed increase to engines programmed for Depot Maintenance increasing from 8 in FY88 to 32 by FY91.

<u>TYPE OF SUPPORT</u>	<u>O&amp;M or Ind. Fund</u>	<u>FY 1988</u>	<u>FY 1989</u>	<u>FY 1990</u>	<u>FY 1991</u>
WEAPON SYSTEM: SPECIAL OPERATIONS FORCES (SOF)					
SUSTAINING ENGINEERING	O&M	9.4	17.1	22.1	32.4
CONTRACT ENGINEERING TECH SVCS	O&M	.9	.7	.7	.7
CONTRACTOR LOGISTICS SUPPORT	O&M	0	1.5	1.6	1.6
INTERIM CONTRACTOR SUPPORT	O&M	13.3	18.2	30.0	32.9
WEAPON SYSTEM TOTAL		23.6	37.5	54.4	67.6



AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

Sustaining Engineering: Sustaining engineering is provided for helicopters and fixed wing aircraft. Helicopter support includes airframe, avionics, hardware and software for the MH-53J (PAVE LOW), MH-60G (PAVE HAWK), H-3, and UH-1H helicopter. Fixed wing aircraft support includes all Special Operations Forces (SOF) unique configurations for the C-141B (SOLL II), AC-130H (Gunship), C-130 (Combat Talon I), C-130 P/N (SOF enhancement), C-130 AWADS (SOF enhancement) for avionics hardware and software.

Initial engineering support is required in FY90 as the SOF Electromagnetic Interference (EMI) program baseline will be established and the Avionics Configuration Analysis Program will add new analysis models for implementation at the Warner Robins Engineering Control Computer Facility.

The decrease is due to the completion of the MH-53J and MH-60G modifications and the continuing aircraft battle damage repair manual contract.

Contractor Logistics Support (CLS): Contract support for the TH-53 Weapon system Trainer (converted from HH-53 WGT) and MH-53J WGT (CH-3E updated to MH-53J PAVE LOW III Enhanced Configuration) to provide training for helicopter air crews. Required due to 341XX career field phaseout.

Interim Contractor Support (ICS): MH-53J system has several programs on-going. The Credible Hawk Program is to increase AF capability to support Special Forces long range rotary wing mission. The extremely compressed aircraft mod schedule does not provide for support equipment and adequately trained maintenance personnel to support the ENS, ALQ-157 and ALQ-162. The APQ-158 is a TFTA radar and is mission essential to the PAVE LOW III aircraft. The AAQ-8 Forward Looking Infrared Radar was previously known as the AAQ-10 Common Module Upgrade. Both systems are being redesigned and installed on the Pave Low "Enhanced" aircraft. ICS is for depot support and field level support until verified tech data and new support equipment can be obtained. The AAR-47 and ALQ-136 are radar countermeasure systems required to protect the helicopter from radar guided missiles. Depot repair capability is not yet available.

The AC/MC-130 also has several on-going programs. The Gunship Replacement Program will procure 12 new C-130H airframes and convert them to a side-firing gunship configuration (AC-130U). Due to program concurrency (FSD overlapping the production phase) the intermediate level SE will not be available until FY93 and Depot level SE won't be available until FY94.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

The AAQ-17 Infrared Detecting Set (IDS) for the AC-130H converts infrared radiation into TV format video signals to enable the aircraft to operate in day/night and adverse weather conditions. ICS is required to support the system due to lack of data and test equipment.

The Combat Talon II system is a new production C-130H integrated with sophisticated avionics systems. This modified derivative aircraft (MC-130H) is intended to meet the TAF SON for Special Operations Aircraft. Neither peculiar support equipment nor verified tech manuals will be available at IOC. Due to delays in the development of unique avionics, the baseline has not been stabilized. This has resulted in provisioning delays and a limited number of spares being procured. To assure these assets are available for operational use it is essential that they be repaired and returned to service quickly. The AC-130H gunship is part of the SOF fleet. There are a limited number of spares being procured. To assure these assets are available for operational use it is essential that they be repaired and returned to service quickly. The AC-130H gunship is part of the SOF fleet. There are a limited number of assets that must be supported coterminously with the FAD-1 designation. The SOF Improvement mod program is a major avionics upgrade to the aircraft that will significantly increase capability, operability, reliability, and maintainability. Anticipate organic support in FY93.

The APR-46A wideband microwave receiving system is a high performance, HF/UHF/Microwave receiver for processing and displaying pulsed and amplitude modulated signals. It will be installed on several SOF C-130 MDS's. Intermediate and depot support equipment and tech data will not be available to support the system organically.

The AN/AAR-44 Infrared Warning Receiver will provide warning of surface-to-air missiles to SOF aircraft. This system warns the crew of the position of missiles and automatically controls countermeasures to neutralize threats and enhance survivability of aircraft. ICS is required until depot organic capability is developed. Funding is \$2.0M in FY89, \$1.9M in FY90 and \$2.0M in FY91.

Other requirements are the AN/ASQ-145A (Low Light Level Television Sensor System) which will have support equipment and data for organic support in FY92, and the AN/APQ-150 Radar System which will be organically supportable in FY91.

AIR FORCE - ACTIVE O&M  
SUMMARY OF CONTRACTOR SUPPORT BY WEAPON SYSTEM  
(Dollars in Millions)

TYPE OF SUPPORT	O&M or Ind. Fund	FY			
		1988	1989	1990	1991
WEAPON SYSTEM: TTTS					
CONTRACTOR LOGISTICS SUPPORT	O&M	0	0	.3	1.4
WEAPON SYSTEM TOTAL		0	0	.3	1.4

Contractor Logistics Support (CLS): The Tanker-Transport System (TTS) is a commercial, off-the-shelf, multi-engine aircraft that will be used by ATC for specialized undergraduate pilot training in the tanker transport track.

AIR FORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IF)  
(\$ Millions)

COMMAND/TYPE OF CONTRACT	O&M OR IND. FUND	CONTRACTOR	SOLE SOURCE OR		FY 88	FY 89	FY 90	FY 91
			O&M	COMP				

Air Force Systems Command (AFSC):

Titan IV Launch Support	O&M	Martin Marietta Corp Aerospace Corp			\$6	\$125	\$204	\$207
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This contract provides launch services for the Titan IV. The Titan IV expendable launch vehicle begins launching in FY89, with two vehicles scheduled for launch. The number of launches is expected to increase to five per year during FY90 and 91.

Inertial Upper Stage (IUS) Launch Services	O&M	Boeing Corp			\$49	\$49	\$34	0
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This contract provides for integration and launch services for the inertial upper stage. This includes storage and logistic support, mission design, vehicle test, launch operations, realtime support to flight operations, and post flight reporting. FY 89 and FY 90 contracts support 4 and 3 launches respectively. The contract decreases in FY 90 as the work will be completed in approximately nine months. There are no FY 91 requirements.

AIR FORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IF)  
(\$ Millions)

COMMAND/TYPE OF CONTRACT	O&M OR IND. FUND	CONTRACTOR	SOLE SOURCE OR		FY 88	FY89	FY 90	FY91
			COMP					
Range Operations	O&M	Pan American World Services	Comp		\$157	0	0	0

This contract furnishes services for the operations and maintenance of the Eastern Test Range facilities and activities at the Eastern Space and Missile Center (ESMC). This encompasses the planning and engineering to develop and support the range operations and maintenance of technical support systems. Other support activities include supply, security, messing, billeting, general facility operation and maintenance, administration, support engineering, operation and maintenance of assigned range instrumentation activities. Beginning in FY89 this contract was replaced by two separate contracts, one to provide center technical support and the other for launch base support services. These new contracts as listed separately below.

Center Technical Services	O&M	Computer Sciences Corp-Raytheon	Comp	0	\$80	\$80	\$78
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Prior to FY89 this function was performed as part of the range operations contract with Pan American World Services. This contract provides engineering and technical support to operate and maintain the Air Force Eastern Space and Missile Center (ESMC) and the Eastern Test Range (ETR). This includes support for launch and flight instrumentation, data transfer and processing systems, down range security and safety, quality control, and operations planning. Also includes installation of programmed range improvement and modernization (18M) equipment.

AIRFORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IF)  
(\$ Millions)

COMMAND/TYPE OF CONTRACT	O&M OR IND. FUND	CONTRACTOR	SOLE SOURCE OR		FY 88	FY 89	FY 90	FY 91
			COMP					
Launch Base Support	O&M	Pan American World Services	Comp		0	\$57	\$54	\$53

Prior to FY89 this function was performed as part of the range operations contract with Pan American World Services. This contract provides contractor management, operations and maintenance of the facilities at the Cape Canaveral Air Force Station (CCAFS). Operations and facility support include launch operation support; resource control, planning, scheduling, status reporting, systems maintenance and realtime operations for assigned systems and facilities; engineering facility services, ancillary support services for security, safety, and quality controls programs; special purpose vehicle maintenance; fire protection and facility engineering support; and other services for ESMC range users.

Range Operations	O&M	Federal Electric Corp Corporation	\$70	\$70	\$89	\$87
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This contract provides all operation and maintenance cost of the Western Space and Missile Center (WSMC) uprange and downrange facilities. Services include engineering, software, design programming for real time and non-real time data processing system performance analysis, analysis of range user requirements and frequency control and analysis. Increase is due to anticipation of higher reimbursable requirements from customers.

AIR FORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IF)  
(\$ Millions)

COMMAND/TYPE OF CONTRACT	O&M OR IND. FUND	CONTRACTOR	SOLE SOURCE OR COMP	FY 88	FY 89	FY 90	FY 91
Air Force Space Command (AF Space Com)							
Network Support	O&M	Ford Aerospace & Communications Corp	Comp	\$66	\$71	\$75	\$77

The Network Support Program contract provides for round-the-clock operations, maintenance, and logistics support of the Air Force Satellite Control Network. Functions include command control and track space vehicles; receive, record, process and transmit telemetry data; support readiness, prelaunch and launch activities; configure and operate computer area equipment, telemetry equipment, and antenna area equipment; and maintenance on all station equipment. Support is provided to the US Military Space Program, other government agencies, and US sponsored programs of foreign governments. Growth between years in due to inflation.

Tactical Air Command (TAC):

Base Operation and Maintenance	O&M	Felec Services Inc	Comp	\$76	\$80	\$64	\$68
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This contract provides necessary manning for operating and maintaining the Distant Early Warning Radar and Communications Systems, related electronic equipment, real property facilities, and support areas. Services include administration, general management, operations, communications and electronic maintenance, civil engineering, logistics services, security, safety, personnel support, and operation and maintenance of utility systems, ventilation, plumbing, sanitation, fire detection and alarms. The increase from FY 1988 to FY 1989 is due to the restoration of repair and maintenance projects and supplies deferred in FY 1988 because of funding constraints. The decrease between FY89 and FY90 is due to projected turn over of north warning sites to Canada and reducing real property maintenance for the remaining sites to normal cycle maintenance. The increase between FY 90 and FY 91 is due to labor price adjustments and normal inflation.

AIR FORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IF)  
(\$ Millions)

COMMAND/TYPE OF CONTRACT	O&M OR IND. FUND	CONTRACTOR	SOLE SOURCE OR		FY 88	FY 89	FY 90	FY91
			COMP					

Air Force Logistics Command (AFLCL):								
Contractor Logistics Support	O&M	Lockheed Corp.	Sole		\$63	\$52	\$49	0

This contract provides engineering, technical, and logistic support necessary to maintain operational readiness for the SR-71 aircraft fleet and systems. Funding decreases between fiscal years due to reductions in the SR-71 aircraft program and flying hours as the program is being phased out.

Contractor Logistics Support	O&M	Pratt & Whitney	Sole		\$51	\$36	0	0
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This contract provides engineering, technical, and logistic support, and J58 engine overhaul necessary to maintain operational readiness for the SR-71 aircraft fleet and systems. Funding decreases between fiscal years due to reductions in the SR-71 aircraft program and flying hours as the program is being phased out.

Contractor Logistics Support	O&M	McDonnell Douglas Corporation	Comp		\$62	\$69	\$80	\$82
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This contract provides logistics support, engine repair, and aircraft maintenance/repair to support 59 KC-10 aircraft, associated equipment, and support equipment. The increase in FY 1990 includes on-board cargo loader modification and wing tip fuel pods.



AIR FORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IF)  
(\$ Millions)

COMMAND/TYPE OF CONTRACT	O&M OR IND. FUND	CONTRACTOR	SOLE SOURCE OR COMP		FY 88	FY 89	FY 90	FY91
Interim Contractor Support	O&M	Rockwell International	Sole		\$51	\$51	\$51	\$37

This contract provides for repair of B-1B assets and some management services. Organic capability is not available at this time. Funding decrease in FY91 is due to the development of organic capability to support the B-1B.

C-130 Outer Wing Repair	IF	Hayes	Comp		\$49	\$24	\$18	\$17
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This contract provides for replacement of C-130 outer wing box beam utilizing salvaged components from old wings. Contract also provides for refurbishment of trailing edges involving replacement of skins and ribs. Annual quantities drop by nine units from FY 89 to FY 90, mostly C-130A models which have the most expensive package.

AIR FORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IF)  
(\$ Millions)

COMMAND/TYPE OF CONTRACT	O&M OR IND. FUND	CONTRACTOR	SOLE SOURCE OR COMP		FY 88	FY 89	FY 90	FY 91
F-111 E/F PDM	IF	British Aerospace	Sole		\$78	\$90	\$106	\$109

This contract provides for Programmed Depot Maintenance (PDM) and installation of aircraft modifications F-111E/F aircraft. The increase in funding is the result of increased tasks, forthcoming modifications, and increase in the foreign currency exchange rate.

KC-135 PDM	IF	Boeing	Comp		\$36	\$60	\$62	\$68
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This contract provides for performance of all programmed depot maintenance requirements as called out in applicable work specifications on all KC-135 series aircraft. It also provides for unprogrammed work as necessary. The increases are due to increased unit sales prices.

Minuteman Motor Washout	IF	Aerojet	Sole		\$41	\$29	\$28	\$21
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This contract provides for manufacture of the Stage 2 motor for the Minuteman Missile. The decrease results from workload phasing down plus no long-lead material buys in FY 91.

T-38 Pacer Classic	IF	Lear Siegler	Comp		\$20	\$28	\$18	\$19
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Contract at Randolph AFB TX to perform multi modifications on 730 T-38A Aircraft. Principal mods include the Dorsal Longeron and Aluminum Flight Control FY89 calls for 59 more aircraft scheduled than prior or following years.

C-141 Center Wing	IF	Lockheed	Sole		\$21	\$23	\$23	\$23
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This contract provides center wing repair and related repair as approved by the ACO.

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AIR FORCE  
CONTRACTS OVER \$50 MILLION  
OPERATION AND MAINTENANCE (O&M) AND INDUSTRIAL FUND (IF)  
(\$ Millions)

O&M OR COMMAND/TYPE OF CONTRACT	IND. FUND	SOLE SOURCE OR CONTRACTOR	COMP	FY		
				98	99	90
Air Cargo Pallets	IF	Brooks & Perkins	Camp	\$14	\$18	\$18
This Contract Provides Repair Of Air Cargo Pallets						
<u>Military Airlift Command (MAC):</u>						
Joint Venture Commercial	IF	Flying Tiger Tower Air United Parcel	Limited Camp	\$153	\$189	-
Joint Venture Commercial	IF	Unknown	Limited Camp	-	-	\$148
Commercial	IF	Northwest	Limited Camp	\$53	\$13	\$13

These contracts represent commercial augmentation of Airlift Service Industrial Fund passenger and cargo activities. Awards are made on a calendar year basis and amounts shown are applicable for each fiscal year. CY 89 contracts awarded 31 Dec 88 represent long-term or fixed buy award and may be expanded for additional airlift capability as needed.

DEPARTMENT OF THE AIR FORCE  
AIR FORCE INDUSTRIAL FUND  
INDUSTRIAL FUND ASSET CAPITALIZATION PROGRAM  
FY90/91 PRESIDENT'S BUDGET  
(DOLLARS IN MILLIONS)

LINE NUMBER	ITEM DESCRIPTION	FY 1988		FY 1989		FY 1990		FY 1991	
		QUANT.	TOTAL COST	QUANT.	TOTAL COST	QUANT.	TOTAL COST	QUANT.	TOTAL
	EQUIPMENT (\$1M OR MORE)								
1	FLUID CELL PRESS	1	1.700						
2	AUTOMATED FUEL ACCESSORY TEST SYSTEM			1	12.000	1	12.000		
3	AIRCRAFT CORROSION CONTROL			1	4.375				
4	GYRO ATE (GG1111)	1	0.203						
5	BRIDGE CRANE	4	1.500						
6	ROBOTIC PAINT BOOTH	1	2.770						
7	AUTOMATED WIRING HARNESS MANUFACTURING SYSTEM	1	3.100						
8	CORROSION CONTROL FACILITY			1	4.800				
9	PLATING SHOP RENOVATION	1	0.037	1	3.233				
10	COMPOSITE CURING SYSTEM	1	2.000						
11	SCRUBBER SYSTEM			1	1.000				
12	ISROM	4	8.470						
13	MECHANIZED MATERIAL HANDLING SYS.					1	1.500		

DEPARTMENT OF THE AIR FORCE  
AIR FORCE INDUSTRIAL FUND  
INDUSTRIAL FUND ASSET CAPITALIZATION PROGRAM  
FY90/91 PRESIDENT'S BUDGET  
(DOLLARS IN MILLIONS)

LINE NUMBER	ITEM DESCRIPTION	FY 1988 QUANT.	FY 1988 TOTAL COST	FY 1989 QUANT.	FY 1989 TOTAL COST	FY 1990 QUANT.	FY 1990 TOTAL COST	FY 1991 QUANT.	FY 1991 TOTAL
14	CNC INTERNAL GRINDER							1	1.500
15	C141 MAINTENANCE HANGAR							9	1.710
16	FLUID CELL PRESS					1	2.500		
	SUBTOTAL	14	19.780	5	25.408	3	16.000	10	3.210
	MODERNIZATION INITIATIVES								
17	AEROSPACE MAINTENANCE AND REGENERATION CENTER	21	1.437	10	0.485	21	0.650	10	0.710
18	SUPPORT GROUP EUROPE	200	3.165	15	0.292	14	0.200	17	0.300
19	SUPPORT CENTER PACIFIC			3	0.038	2	0.100	1	0.200
	SUBTOTAL	221	4.602	28	0.815	37	0.950	28	1.210
	INCREASED CAPABILITY								
20	TOPOGRAPHIC SYSTEM	1	1.600						
21	HARDWARE RECLAMATION	1	0.750	1	1.114				
22	MATCH GRINDER	1	0.600	1	0.625				

DEPARTMENT OF THE AIR FORCE  
AIR FORCE INDUSTRIAL FUND  
INDUSTRIAL FUND ASSET CAPITALIZATION PROGRAM  
FY90/91 PRESIDENT'S BUDGET  
(DOLLARS IN MILLIONS)

LINE NUMBER	ITEM DESCRIPTION	FY 1988 QUANT.	FY 1988 TOTAL COST	FY 1989 QUANT.	FY 1989 TOTAL COST	FY 1990 QUANT.	FY 1990 TOTAL COST	FY 1991 QUANT.	FY 1991 TOTAL
23	ADVANCED COMPOSITES FACILITY	2	3.900						
24	IBEC FACILITY IOE	4	3.800						
25	KC-135 MOVING LINE	1	2.500						
26	METAL PROCESS SHOP			1	0.800				
27	MAINTENANCE DOCK					3	0.101		
28	AUGER MICROSCOPE							1	1.000
29	IOE BLDG 331					1	2.600		
30	ALTER CORROSION CONTROL FACILITY							1	1.100
31	ADAL DEPOT HYDRAULIC FACILITY					1	3.000		
32	F-15 WING REPAIR FACILITY					6	1.320		
	SUBTOTAL	10	13.150	3	2.539	11	7.021	2	2.100
	CAD/CAM SYSTEMS								
33	CDS 4101 UPGRADE	1	0.383						
34	ONC COMPOSITE LOG UP CUTTER							1	0.150

DEPARTMENT OF THE AIR FORCE  
AIR FORCE INDUSTRIAL FUND  
INDUSTRIAL FUND ASSET CAPITALIZATION PROGRAM  
FY90/91 PRESIDENT'S BUDGET  
(DOLLARS IN MILLIONS)

LINE NUMBER	ITEM DESCRIPTION	FY 1988 QUANT.	FY 1988 TOTAL COST	FY 1989 QUANT.	FY 1989 TOTAL COST	FY 1990 QUANT.	FY 1990 TOTAL COST	FY 1991 QUANT.	FY 1991 TOTAL
35	CAD/CAM INTEGRATION					1	0.200	1	0.200
	SUBTOTAL	1	0.383			1	0.200	2	0.350
	EQUIPMENT (LESS THAN \$1M)								
36	EQUIPMENT ACQUISITIONS	242	29.427	100	9.298	325	17.085	342	25.571
37	COMMERCIAL LAUNDRY & DRY CLEANING	1	0.400			2	0.500	1	0.400
38	VEHICLES	95	1.314	134	2.055				
39	ENVIRONMENTAL EQUIPMENT	32	0.475	31	0.375				
40	ENVIRONMENTAL EQUIPMENT	1	0.060						
	SUBTOTAL	371	31.676	265	11.728	327	17.585	343	25.971
	MINOR CONSTRUCTION								
41	DMIF	46	7.263	46	5.422	44	4.100	69	8.000
42	LDC	1	0.100	2	0.300			1	0.100
	SUBTOTAL	47	7.363	48	5.722	44	4.100	70	8.100

DEPARTMENT OF THE AIR FORCE  
AIR FORCE INDUSTRIAL FUND  
INDUSTRIAL FUND ASSET CAPITALIZATION PROGRAM  
FY90/91 PRESIDENT'S BUDGET  
(DOLLARS IN MILLIONS)

LINE NUMBER	ITEM DESCRIPTION	FY 1988 QUANT.	FY 1988 TOTAL COST	FY 1989 QUANT.	FY 1989 TOTAL COST	FY 1990 QUANT.	FY 1990 TOTAL COST	FY 1991 QUANT.	FY 1991 TOTAL COST
	MANAGEMENT INFO SYSTEMS (\$1M OR MORE)								
43	DEPOT MAINTENANCE MANAGEMENT INFORMATION SYSTEMS (DMIS)	1	22.026	1	22.900	1	28.144	1	32.459
44	G011 HARDWARE			1	2.100				
45	MANAGEMENT DECISION SUPPORT SYSTEM HARDWARE (MDSS)			1	3.337				
	SUBTOTAL	1	22.026	3	28.337	1	28.144	1	32.459
	MANAGEMENT INFO SYSTEMS (LESS THEN \$1M)								
46	INFORMATION SYSTEMS NETWORK							1	0.500
47	MAO COMPUTER REQUIREMENTS	1	0.258	1	0.281				
48	ARTIFICIAL INTELLIGENCE							1	0.100
49	MATERIAL CONTROL INTERGRATION					2	1.000	2	1.000
50	OFFICE AUTOMATION	16	0.762	2	0.170				
	SUBTOTAL	21	1.020	4	0.451	2	1.000	4	1.600



DEPARTMENT OF THE AIR FORCE  
AIR FORCE INDUSTRIAL FUND  
INDUSTRIAL FUND ASSET CAPITALIZATION PROGRAM  
FY90/91 PRESIDENT'S BUDGET  
(DOLLARS IN MILLIONS)

LINE NUMBER	ITEM DESCRIPTION	FY 1988 QUANT.	FY 1988 TOTAL COST	FY 1989 QUANT.	FY 1989 TOTAL COST	FY 1990 QUANT.	FY 1990 TOTAL COST	FY 1991 QUANT.	FY 1991 TOTAL
	TOTAL	686	100.000	356	75.000	426	75.000	460	75.000
	SUMMARY								
	EQUIPMENT (\$1M OR MORE)	14	19.780	5	25.408	3	16.000	10	3.210
	MODERNIZATION INITIATIVES	221	4.602	28	0.815	37	0.950	28	1.210
	INCREASED CAPABILITY	10	13.150	3	2.539	11	7.021	2	2.100
	CAD/CAM SYSTEMS	1	0.383			1	0.200	2	0.350
	EQUIPMENT (LESS THEN \$1M)	371	31.676	265	11.728	327	17.585	343	25.971
	MINOR CONSTRUCTION	47	7.363	48	5.722	44	4.100	70	8.100
	MANAGEMENT INFO SYSTEMS (\$1M OR MORE)	1	22.026	3	28.337	1	28.144	1	32.459
	MANAGEMENT INFO SYSTEMS (LESS THEN \$1M)	21	1.020	4	0.451	2	1.000	4	1.600
	TOTAL	686	100.000	356	75.000	426	75.000	460	75.000

DEPARTMENT OF THE AIR FORCE  
AIR FORCE INDUSTRIAL FUND  
INDUSTRIAL FUND ASSET CAPITALIZATION PROGRAM  
FY90/91 PRESIDENT'S BUDGET  
(DOLLARS IN MILLIONS)

LINE NUMBER	ITEM DESCRIPTION	FY 1988		FY 1989		FY 1990		FY 1991	
		QUANT.	TOTAL COST	QUANT.	TOTAL COST	QUANT.	TOTAL COST	QUANT.	TOTAL
	DMIF DESCRIPTION								
	EQUIPMENT (\$1M OR MORE)	14	19.780	5	25.408	3	16.000	10	3.210
	MODERNIZATION INITIATIVES	221	4.602	28	0.815	37	0.950	28	1.210
	INCREASED CAPABILITY	10	13.150	3	2.539	11	7.021	2	2.100
	CAD/CAM SYSTEMS	1	0.383			1	0.200	2	0.350
	EQUIPMENT (LESS THEN \$1M)	242	29.427	100	9.298	325	17.085	342	25.571
	MINOR CONSTRUCTION	46	7.263	46	5.422	44	4.100	69	8.000
	MANAGEMENT INFO SYSTEMS (\$1M OR MORE)	1	22.026	3	28.337	1	28.144	1	32.459
	MANAGEMENT INFO SYSTEMS (LESS THEN \$1M)	1	0.258	1	0.281	2	1.000	4	1.600
	TOTAL	536	96.889	186	72.100	424	74.500	458	74.500

DEPARTMENT OF THE AIR FORCE  
 AIR FORCE INDUSTRIAL FUND  
 INDUSTRIAL FUND ASSET CAPITALIZATION PROGRAM  
 FY90/91 PRESIDENT'S BUDGET  
 (DOLLARS IN MILLIONS)

LINE NUMBER	ITEM DESCRIPTION	FY 1988		FY 1989		FY 1990		FY 1991	
		QUANT.	TOTAL COST	QUANT.	TOTAL COST	QUANT.	TOTAL COST	QUANT.	TOTAL COST
	LDC								
	DESCRIPTION								
	EQUIPMENT (\$1M OR MORE)								
	MODERNIZATION INITIATIVES								
	INCREASED CAPABILITY								
	CAD/CAM SYSTEMS								
	EQUIPMENT (LESS THEN \$1M)	1	0.400			2	0.500	1	0.400
	MINOR CONSTRUCTION	1	0.100	2	0.300			1	0.100
	MANAGEMENT INFO SYSTEMS (\$1M OR MORE)								
	MANAGEMENT INFO SYSTEMS (LESS THEN \$1M)								
	TOTAL	2	0.500	2	0.300	2	0.500	2	0.500

DEPARTMENT OF THE AIR FORCE  
 AIR FORCE INDUSTRIAL FUND  
 INDUSTRIAL FUND ASSET CAPITALIZATION PROGRAM  
 FY90/91 PRESIDENT'S BUDGET  
 (DOLLARS IN MILLIONS)

LINE NUMBER	ITEM DESCRIPTION	FY 1988		FY 1989		FY 1990		FY 1991	
		QUANT.	TOTAL COST	QUANT.	TOTAL COST	QUANT.	TOTAL COST	QUANT.	TOTAL
	SARFMA DESCRIPTION								
	EQUIPMENT (\$1M OR MORE)								
	MODERNIZATION INITIATIVES								
	INCREASED CAPABILITY								
	CAD/CAM SYSTEMS								
	EQUIPMENT (LESS THEN \$1M)	128	1.849	165	2.430				
	MINOR CONSTRUCTION								
	MANAGEMENT INFO SYSTEMS (\$1M OR MORE)								
	MANAGEMENT INFO SYSTEMS (LESS THEN \$1M)	20	0.762	3	0.170				
	TOTAL	148	2.611	168	2.600				

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THIS PROJECT IS FOR A FLUID CELL PRESS WHICH WILL FORM SHEET METAL BLANKS TO A DESIRED CONTOUR BY MEANS OF A DIAPHRAGM, BACKED BY OIL PRESSURE. THE FLUID CELL PRESS IS DESIGNED WITH TWO ROLLER-GUIDED TRAYS CAPABLE OF LOADING ONE OR MULTIPLE NUMBER OF PARTS INTO THE PRESS FORMING AREA. THE TRAY IS INSERTED INTO THE PRESSING AREA AND THEN PRESSURIZED. CAPABILITY OF 7500 PSI WITH A 7 1/2 INCH PRESSING DEPTH ON THE TRAY IS REQUIRED. SIZE OF TRAY IS 50 INCHES IN WIDTH BY 116 INCHES IN LENGTH. THIS EQUIPMENT IS A CRITICAL ITEM IN THE MANUFACTURE OF AIRCRAFT PARTS.

ASSET CAPITALIZATION PROGRAM JUSTIFICATION SHEET										A. BUDGET SUBMISSION	
(DOLLARS IN THOUSANDS)										FY 1990/91	
B. INDUSTRIAL FUND/ACTIVITY		C. ACP-1 LINE NO. & ITEM DESCRIPTION									
DMIF, AFIF		CATEGORY: 1 AUTOMATED FUEL ACCESSORY TEST SYSTEM									
SA-ALC		LINE NO. 2									
		FY 1988			FY 1989			FY 1990			FY 1991
ELEMENTS OF COST	QUANT.	UNIT	TOTAL	QUANT.	UNIT	TOTAL	QUANT.	UNIT	TOTAL	QUANT.	TOTAL
		COST	COST		COST	COST		COST	COST		COST
ACQUISITION COST				1	12000	12000		1	12000	12000	

# NARRATIVE JUSTIFICATION:

EQUIPMENT REQUIREMENTS ARE INITIAL OUTFITTING EQUIPMENT FOR THE ADVANCED FUEL ACCESSORIES TEST FACILITY (AFATF) WHICH IS A SPECIAL PURPOSE FACILITY DESIGNED AND BUILT FOR THE SOLE PURPOSE OF TESTING AIRCRAFT AND JET ENGINE FUEL SYSTEM COMPONENTS. THE FACILITY WOULD BE CONFIGURED TO MATCH THE EQUIPMENT BEING PROCURED FOR THIS PROJECT. PARTICULAR CONFIGURATION OF THE EQUIPMENT REQUIRES CENTRALLY ACCESSIBLE TEST ROOMS, WITH UTILITIES DISTRIBUTION IN PLACE, FOR GENERAL PURPOSE TEST STATIONS AND SEPARATE ROOMS WITH OUTSIDE ACCESS FOR ENERGY-EFFICIENT PUMP MODULE INSTALLATION. SEPARATING THIS EQUIPMENT ALLOWS ENERGY SAVINGS BY ONLY NEEDING PROCESS HEATING, COOLING, AND LIGHTING IN THE TEST AREA.

BENEFITS INCLUDE: RELIEF FROM LENGTHY DOWNTIME OF PRESENT STANDS DUE TO NONAVAILABILITY OF OBSOLETE COMPONENTS, ABILITY TO ACCEPT FUTURE WORKLOADS AND INCREASES IN PRESENT WORKLOADS WHICH PRESENT EQUIPMENT CANNOT SUSTAIN, RELIEF FROM CROWDED, NOISY WORK ENVIRONMENTS AND EXTENDED WORK FLOW DUE TO LIMITATIONS OF PRESENT ANTICATED TEST STANDS.

WEAPON SYSTEMS/ITEMS SUPPORTED: F100, TF-39 AND T-56 JET ENGINES, F-111, F-15, F16, B-1, C-5, C-130, T-37 AND T-38 AIRCRAFT FUEL ACCESSORIES.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THIS REQUIREMENT IS FOR INITIAL OUTFITTING EQUIPMENT FOR A 76,500 SF STRUCTURAL STEEL AND MASONRY AIRCRAFT CORROSION CONTROL FACILITY. THIS PROJECT WILL GENERATE \$4,309,830 IN YEARLY SAVINGS AND PRODUCE A ONE-TIME COST AVOIDANCE OF \$14,913,422.

THE ANNUAL SAVINGS ARE ESTIMATED AS THIS NEW PROCESS HAS NOT YET BEEN PERFORMED ON THE C-5 AIRCRAFT. THERE IS ALSO A HIGH PROBABILITY OF ENVIRONMENTAL PROTECTION AGENCY (EPA) FINES (APPROXIMATELY \$1000 PER DAY) ON THE EXISTING FACILITY.

THE ONE-TIME COST AVOIDANCE IS A RESULT OF PAINTING ALL C-5 AIRCRAFT ON THEIR PROGRAMMED DEROT MAINTENANCE (PDM) CYCLE. WITHOUT THIS NEW FACILITY THE AIRCRAFT WILL BE GROUNDED LONGER AND MAY BE REQUIRED TO LEAVE THE DEROT AND RETURN WHEN PAINTING CAN BE SCHEDULED.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

ACP-1 LINE NO. & ITEM DESCRIPTION  
CATEGORY: 1 GYRO ATE (GG1111)  
LINE NO. 4

[illegible]

**NARRATIVE JUSTIFICATION:**

THE DIRECTORATE OF MAINTENANCE, PRODUCTION BRANCH WITHIN THE INDUSTRIAL PRODUCTS DIVISION, IS THE SOURCE OF REPAIR FOR THE HONEYWELL GG1111 FAMILY OF RATE INTEGRATING GYROSCOPES. TO ACCOMPLISH THIS TASK, THE GG1111 TEST SYSTEM IS REQUIRED TO PROVIDE THE CAPABILITY WHICH SUPPORTS THE F15, F16, AOM-1, OV10, B1B, SHAG, PAVE SPIKE F106, AND LS1CS/WD5 WEAPON SYSTEMS. AS THE TECHNOLOGY REPAIR CENTER FOR GYROSCOPES, AND WITH NO ESTABLISHED SOURCE OF REPAIR FOR THIS WORKLOAD, A CAPABILITY MUST BE ESTABLISHED AT WARNER ROBINS AFB.

THE CURRENT WORKLOAD PROJECTIONS IDENTIFIES 100 GYRO'S PER MONTH. THAT SHALL CONSIST OF THE FOLLOWING ELEMENTS:

TEARDOWN, REBUILD, RECALIBRATE INSPECTION ENGINEERING TOTAL	6.5 HOURS 1.7 HOURS 2.0 HOURS 10.2 HOURS

PER MONTH: 100 UNITS X 10.2 HOURS 1020 HOURS PER MONTH



**A. BUDGET SUBMISSION**  
FY 1990/91

**IND/ACTIVITY**  
**GROUP/ACTIVITY**  
**WR-ALC**

[illegible]

**NARRATIVE JUSTIFICATION:**

THE BRIDGE CRANES ARE AN IMPORTANT COMPONENT OF THE NEW C140 AIRCRAFT REPAIR FACILITY AND WILL HAVE A SIGNIFICANT IMPACT ON THE EFFECTIVENESS OF OUR OPERATIONS. A LARGE NUMBER OF COMPONENTS AND PARTS WEIGHING OVER 400 POUNDS MUST BE REMOVED AND INSTALLED DURING OUR REPAIR CYCLE. COMPONENTS ROUTINELY HANDLED ARE WELDERS, ELEVATORS, PROPS, ENGINES, WINGS, VERTICAL STABILIZERS, AND HORIZONTAL STABILIZERS. ONCE PARTS HAVE BEEN REMOVED, THEY MUST BE LOADED ONTO PARTS DOLLIES, STORAGE RACKS OR SPECIAL TRANSPORT DOLLIES. FOUR C-130'S WILL BE WORKED CONCURRENTLY IN EACH HANGER MAKING IT DIFFICULT TO POSITION LOADS BETWEEN AIRCRAFT AND PORTABLE EQUIPMENT. THE BRIDGE CRANES WHICH OPERATE FROM OVERHEAD ARE ABLE TO POSITION LOADS DIRECTLY INTO PLACE WITHOUT HAVING TO REACH OVER OTHER AIRCRAFT.

OPERATIONAL BENEFITS PROVIDE A SECURE WORKING AREA FOR SPECIAL MISSION C130 AIRCRAFT, CONTROLLED WORK ENVIRONMENT FOR BOTH AIRCRAFT AND MAINTENANCE PERSONNEL, REDUCED DEPENDENCY ON PORTABLE EQUIPMENT, CONSOLIDATE THE MAINTENANCE OPERATIONS TO ONE LOCATION, INCREASE SURGE CAPABILITY AND FLEXIBILITY IN RESPONDING TO EVER CHANGING WORKLOADS.

ASSET CAPITALIZATION PROGRAM JUSTIFICATION SHEET (DOLLARS IN THOUSANDS)										A. BUDGET SUBMISSION FY 1990/91					
B. INDUSTRIAL FUND/ACTIVITY GROUP/ACTIVITY DMIF, AFIF      WR-ALC		C. ACP-1 LINE NO. & ITEM DESCRIPTION CATEGORY: 1 ROBOTIC PAINT BOOTH LINE NO. 6													
		FY 1988			FY 1989			FY 1990			FY 1991				
ELEMENTS OF COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST			
ACQUISITION COST	1	1990	1990												
BOOTH	1	580	580												
SITE PREPARATION	1	200	200												
		</													

NARRATIVE JUSTIFICATION:

WR-ALC IS PROGRAMMED TO ACCOMPLISH A FDM PACKAGE ON THE F15 AIRCRAFT SYSTEMS STARTING FY88. EACH AIRCRAFT IS REQUIRED TO HAVE THE PREPARATION AND PAINTING PROCESSES PERFORMED AFTER FDM IS COMPLETED. THE TANGIBLE SAVINGS CALCULATED FOR THE AIRCRAFT ROBOTIC PAINT SYSTEM WAS BASED ON THE NUMBER OF AIRCRAFT INCLUDED IN THIS FDM PACKAGE. THE FDM WORKLOAD IS 100 AIRCRAFT PER YEAR.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THIS INVESTMENT IS FOR A AWMS THAT IS CAPABLE OF PRODUCING COMPLETED, TESTED, AND INSPECTED WIRE HARNESS, IN THE MOST FLEXIBLE COST-EFFECTIVE MANNER POSSIBLE. USED IN AIRCRAFT (F15, C130, C141, KC135, F117, ETC) AND AVIONICS EQUIPMENT WITHOUT THIS SYSTEM, HARNESSES WOULD HAVE TO BE MANUFACTURED MANUALLY. MODIFICATION OF WIRE HARNESSES FOR THE ENTIRE FLEET OF F15A, B, C, D IS REQUIRED BY FLEET MODERNIZATION PROGRAM. THIS SIMPLY CANNOT BE ACCOMPLISHED IN AN EFFICIENT MANNER IF DONE MANUALLY.

THIS REQUIREMENT IS A PART OF MULTI STATE IMPROVEMENT PROGRAM (MSIP) FOR THE F15 AIRCRAFT. MSIP REQUIRES EXTENSIVE CHANGES TO WIRING HARNESS WHICH CANNOT BE ACCOMPLISHED WITHOUT AN AUTOMATED MANUFACTURING OPERATION.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THIS PROJECT WILL CONSTRUCT A MISSION VITAL CORROSION CONTROL (STRIPPING AND PAINTING) FACILITY FOR SUPPORTING F15, C130, AND C141 AIRCRAFT PROGRAMMED DEPOT MAINTENANCE AND SPEEDLINE SCHEDULES. THE FACILITY WILL HAVE THE CAPACITY FOR ACCOMPLISHING CORROSION CONTROL FOR EITHER ONE C141, ONE C130, OR TWO F15 AIRCRAFT. THIS PROJECT IS NEEDED TO ACCOMPLISH A WORKLOAD INCREASE WHICH MUST BE SATISFIED BY A NEW COMBINATION FACILITY. THIS PROJECT WILL PERMIT US TO ACCOMPLISH THE FY89 AND BEYOND PLANNED CORROSION CONTROL WORKLOAD ( A 30% INCREASE OVER PRESENT REQUIREMENTS). IT WILL ELIMINATE SLIPPAGE OF AIRCRAFT SCHEDULES AND ALLOW ALL CORROSION CONTROL TO BE ACCOMPLISHED DURING SCHEDULED PM AND SPEED LINE WORK. THE CONSTRUCTION OF THIS FACILITY WILL ELIMINATE THE NEED FOR THREE SHIFT OPERATION SEVEN DAYS A WEEK IN ORDER TO ACCOMPLISH THE PROJECTED WORKLOAD. PROJECT WILL ELIMINATE THE REQUIREMENT FOR EXCESSIVE FERRYING OF F15'S FROM NINE CONTINENTAL USA TAG AIR BASES.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THE INDUSTRIAL PRODUCTS DIVISION AT WR-ALC REQUIRES A COMPLETE RENOVATION OF THE PLATING SHOP. CONDITIONS IN THE SHOP HAVE MADE IT INCREASINGLY DIFFICULT TO PERFORM THE REQUIRED PROCESSES IN AN EFFECTIVE MANNER TO MEET PRESENT AND PLANNED WORKLOADS. THE PRESENT SHOP IS 15 YEARS OLD AND HAS BEEN IN USE 24 HOURS A DAY, 6-7 DAYS A WEEK. IN ADDITION TO THIS, THE ACID/ALKALI ENVIRONMENT INHERENT IN PLATING OPERATIONS HAS CAUSED MUCH FLOOR, STEEL STRUCTURE AND ELECTRICAL SERVICE DAMAGE. THE CHEMICALS USED IN THE PLATING SHOP ARE CORROSIVE IN NATURE AND HAVE DAMAGED RECTIFIERS, PLATING TANKS, AND SUPPORTS. THE CHROME AND CADMIUM PLATING OPERATIONS ARE NOW OUT OF COMPLIANCE WITH EPA REGULATIONS. HEAVY NICKEL, CHROME AND CADMIUM CONTAMINATION IS EMBEDDED IN THE CONCRETE FLOOR, SOIL, VENTILATION, AND PLUMBING. EXCESSIVE CADMIUM METAL IS INDICATED AT 7.5 FEET BELOW THE GROUND LEVEL. ALSO, ASBESTOS HAS BEEN FOUND IN THE STEAM SYSTEM THROUGHOUT THE BUILDING. CURRENT WORKLOADS ARE ALREADY AT MAXIMUM CAPACITY AND MUST BE RENOVATED AND INCREASED IN ORDER TO MEET PLANNED FUTURE WORKLOADS. ADDITIONAL DELAYS IN COMPLETING THE RENOVATION PROJECT MAY CAUSE DAMAGE TO THE ACTUAL BUILDING AND RESULT IN ADDITIONAL MCP COSTS FOR A NEW FACILITY.

**GET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THE COMPOSITE CURING SYSTEM PROVIDES CAPABILITY TO CURE COMPOSITE AND BONDED HONEYCOMB AIRCRAFT SURFACES AND INCORPORATES STATE-OF-THE-ART PROCEDURES, AND EQUIPMENT, THEREBY INCREASING WORKLOAD CAPACITY BY AT LEAST 20%. ADDITIONALLY, THE COMPUTER AIDED CONTROLS MONITOR AND AUTOMATICALLY CORRECT THE CURING ENVIRONMENT CONSEQUENTLY LENDING CONSISTENCY AND QUALITY TO YOUR PRODUCTION. IN SUPPORT OF F111 WORKLOAD, USAF ADVANCED COMPOSITES PROGRAM OFFICE LEADS ALC'S IN ADVANCED COMPOSITES TECHNOLOGY INSERTION.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

PROUREMENT OF SCRUBBER SYSTEMS ARE NEEDED TO REPLACE THE EXISTING SCRUBBERS ON THE CHROME PLATING EXHAUST STACKS. EXISTING SCRUBBERS ARE RUSTED AND IN A STATE OF DECOMPOSITION. · ATMOSPHERIC BIO-ENVIRONMENTAL STANDARDS REQUIRE THAT THESE SCRUBBERS MUST BE MAINTAINED. WITHOUT NEW SCRUBBERS THE CHROMIUM PLATING OF WORLDWIDE LANDING GEAR OPERATIONS FOR USAF WILL BE SHUT DOWN.

THE PLATING PROCESS IS PART OF THE OVERALL REPAIR PROCESS OF LANDING GEARS. WORKLOAD INCLUDES 37 DIFFERENT TYPES OF LANDING GEAR IN SUPPORT OF C5, B62, KC135, C130, F4, F15, F16, T38, A7 AND A10.





**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THIS EQUIPMENT WILL SUPPORT THE F-4, F-16, C-141, B-52, C-130, C-135, AND ALL OTHER AIRCRAFT WITH LANDING GEAR REPAIRED AT CO-ALC.

THIS MAHS WILL TEMPORARILY STORE ALL COMPONENTS PRIOR TO ENTRY INTO THE WORK FLOW PROCESS. THIS WILL ENCOMPASS THOUSANDS OF ITEMS.

THIS EQUIPMENT WILL BE ESSENTIAL TO THE IMPLEMENTATION OF THE CURRENT AFLC INITIATIVE TO MODERNIZE ITS DATA SYSTEMS (DEPOT MAINTENANCE MANAGEMENT INFORMATION SYSTEM (DMIS)).

**A. BUDGET SUBMISSION**  
**FY 1990/91**

C. ACP-1 LINE NO. & ITEM DESCRIPTION  
CATEGORY: 1 COMPUTER NUMERICAL CONTROL (CNC) INTERNAL GRINDER  
LINE NO. 14

[illegible]

**NARRATIVE JUSTIFICATION:**

THIS EQUIPMENT WILL BE USED TO SUPPORT THE LANDING GEAR COMPONENTS ON THE C-5A, C-5B, AND THE B-1B. THIS EQUIPMENT WILL ELIMINATE THE NEED FOR WEEKEND OVERTIME PROJECTED TO SUPPORT QUT-YEAR WORKLOAD REQUIREMENTS. IN ADDITION, IT WILL PROVIDE SURGE CAPABILITY FOR THIS CRITICAL WORKLOAD.

**I A. BUDGET SUBMISSION**  
**I FY 1990/91**

B. INDUSTRIAL FUND/ACTIVITY	GROUP/ACTIVITY	WR-ALC
DMIF, AFIF		

[illegible]

THREE BRIDGE CRANES PER BAY FOR A TOTAL OF NINE BRIDGE CRANES FOR SIX PLANE HANGAR.

IMPACT IF NOT PROVIDED: IF BRIDGE CRANES ARE NOT PROVIDED CERTAIN COMPONENTS ON THE AIRCRAFT WILL NOT BE ABLE TO BE REMOVED. I  
TO FULLY OPERATE A MOBILE CRANE HANDLING SYSTEM REQUIRES AN ADDITIONAL 20 FEET WIDTH PER BAY PLUS 5 FEET ADDITIONAL IN HEIGHT I  
BEYOND THAT REQUIRED FOR A BRIDGE CRANE SYSTEM. IN ADDITION, THE ACCURACY WITH WHICH F15 WINGS HAVE TO BE PLACED IN WING I  
JIGS CAN ONLY BE ACCOMPLISHED WITH BRIDGE CRANES. THIS IS PROGRAMMED IN ACCORDANCE WITH BOEING, LAKE CHARLES, LA, DESIGN. I  
SIZE AND COST PER SQUARE FOOT ARE CRITICAL AND MUST BE KEPT AT A MINIMUM TO REMAIN WITHIN SCOPE OF THE APPROVED PROJECT. I  
ADDING THE REQUIRED SQUARE FOOTAGE FOR MOBILE CRANE OPERATIONS IS NOT A VIABLE ALTERNATIVE. I

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

CURRENTLY, AIRCRAFT STRUCTURAL PARTS ARE FORMED, THEN CLEANED, HEAT TREATED TO REQUIRED SPECIFICATION, THEN REFORMED. THESE REFORMED PARTS ARE THEN HAND FORMED DUE TO DISTORTION BROUGHT ABOUT IN HEAT TREAT. ALSO, THE INCONSISTENCY IN FORMING, THE CURRENT INABILITY TO FORM TO FINISHED PARTS FORM (CURRENT FORMING PRESSES DO NOT HAVE SUFFICIENT PSI AND ARE NOT IN BEST MECHANICAL CONDITION DUE TO AGE AND WEAR). BY USING A 20,000 PSI FLUID CELL PRESS, A COST REDUCTION CAN BE ACHIEVED DUE TO THE ABILITY OF TAKING AN AIRCRAFT HEAT-TREATED STRUCTURAL PART, AND FORMING IT CONSISTENTLY. THIS WILL MINIMIZE, AS WELL AS, ELIMINATE SOME OPERATIONS ALONG WITH REFORMING CURRENTLY REQUIRED BY LABOR INTENSIVE HAND FORMING AND PREFORMING OF PARTS PRIOR TO HEAT TREATING. DUE TO THIS CONSISTENT FORM REPEATABILITY, THE QUALITY ASSURANCE PROGRAM WILL BE ENHANCED (AN INTANGIBLE COST SAVINGS) AND SOME CLEANING AND HEAT TREATING OPERATIONS WILL BE ELIMINATED. INDUSTRY INQUIRIES INDICATE THE POTENTIAL FOR A 75% TO 100% SAVINGS IN ANY ADDITIONAL FORMING OPERATIONS USING A HIGH PRESSURE FLUID CELL PRESS (20,000 PSI).

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

AWARCS ADVANCEMENT IN THE AVIATION MAINTENANCE ARENA REQUIRES AN UPDATE OF THE EQUIPMENT AND FACILITIES ON HAND. REPLACEMENT OF AGING EQUIPMENT WILL ELIMINATE POTENTIAL WORK STOPPAGES. IN ADDITION, AWARC IS INVOLVED IN F100 AND F106 DRONE PROJECTS. THE OA-37 ANALYTICAL CONDITION INSPECTION (ACI) PROGRAM, THE GROUND LAUNCH CRUISE MISSILE ELIMINATION (AS OUTLINED IN THE IF TREATY), AND THE F106A SPECIALIZED REPAIR ACTIVITY (SRA) PROGRAM. EQUIPMENT IS BEING ACQUIRED TO SUPPORT THESE PROJECTS.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THESE EQUIPMENT AND FACILITY PROJECTS ARE REQUIRED TO PROVIDE DEPOT LEVEL REPAIR CAPABILITY FOR A LARGE VARIETY OF WEAPON I  
LACK OF SUPPORT FOR THESE ITEMS WILL NEGATE THE BENEFITS OBTAINED IN PRIOR YEAR PROCUREMENTS, AS WELL I  
ITEMS USED IN USAF WILL HAVE TO BE SHIPPED BACK TO THE CONUS FOR REPAIR. I

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THIS EQUIPMENT IS REQUIRED TO PROVIDE DEPOT LEVEL REPAIR OF A LARGE VARIETY OF ITEMS USED BY PACAF. LACK OF SUPPORT OF THE EQUIPMENT COULD RESULT IN NEGATING FULL BENEFITS OF PRIOR YEAR PURCHASES AND INCREASE COSTS AS ITEMS USED IN PACAF WILL HAVE TO BE SHIPPED BACK TO THE CONUS FOR REPAIR.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

ACP-1 LINE NO. & ITEM DESCRIPTION  
CATEGORY: 3 TOMOGRAPHIC SYSTEM  
LINE NO. 20

[illegible]

**NARRATIVE JUSTIFICATION:**

THE COMPUTED INDUSTRIAL TOMOGRAPHIC ANALYZER (CITA) IS A CONSOLIDATED MULTI-COMPONENT INSPECTION SYSTEM CAPABLE OF PERFORMING NONDESTRUCTIVE TESTING ON AIRCRAFT AND ENGINE INDIVIDUAL PARTS AND COMPLETELY ASSEMBLED COMPONENTS. THE EQUIPMENT CONSISTS OF A SCANNER, DATA PROCESSING, AND GRAPHICS SUBSYSTEMS WITH THE SOFTWARE REQUIRED AND NECESSARY TO SUPPORT APPLICATIONS FOR ALL TOMOGRAPHIC SYSTEM MODES OF OPERATION. THE CITA IS REQUIRED TO UPGRADE SA-ALC'S NONDESTRUCTIVE INSPECTION CAPABILITIES TO MEET THE TESTING REQUIREMENTS OF THIS DECADE WHICH ARE BEING IMPOSED BY INCREASED ENGINE AND AIRCRAFT PERFORMANCE. COMPUTERIZED TOMOGRAPHY WILL ENABLE HIGH RESOLUTION MULTICOLOR IMAGE DISPLAY AND HIGH SPEED AUTOMATIC COMPUTATION YIELDING PRECISE MEASUREMENTS OF DEFECTS AND THEIR LOCATION WITH THE ACCURACY OF 0.001 INCHES. THE CITA IS A MAINTENANCE SPONSORED TECHNOLOGY (MST) PROJECT THAT REPRESENTS THE STATE-OF-THE-ART IN NONDESTRUCTIVE INSPECTION OF ASSEMBLED COMPONENTS WITH VERSATILITY OF PROVIDING ACCURATE DIMENSIONAL DRAWINGS AND GEOMETRICAL MODELING FOR THE REQUIRED SUPPORT OF PRESENT AND FUTURE AIRCRAFT AND ENGINE COMPONENTS IN THE DEPARTMENT OF DEFENSE.



**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

SA-ALC HAS THE ONLY ORGANIC AIRCRAFT STARTER, SECONDARY POWER SYSTEM (SPS) AND ENGINE START SYSTEM (ESS) OVERHAUL FACILITY IN THE USAF. CURRENTLY OVERHAULING SEVENTEEN DIFFERENT MODEL STARTERS, SIX SPS AND THREE ESS.

**THE HARDWARE RECLAMATION SYSTEM WILL:**

- A. ELIMINATE THE POSSIBILITY OF REFUSING CONDEMNED PARTS (BY ESTABLISHING INSPECTION CRITERIA)
- B. INCREASE THE REUSE OF HARDWARE.
- C. INCREASE SURGE CAPABILITY BY A FACTOR OF FOUR.
- D. DECREASE DISCARDED HARDWARE BY A MINIMUM OF 30%.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

REQUIRED TO REPAIR AND MANUFACTURE, AS NECESSARY, SPOOL/SLEEVE SETS FOR AIRCRAFT SYSTEM HYDRAULIC COMPONENTS TO THE SAME TOLERANCES AS ORIGINAL SETS (+0.000020). WILL PROVIDE INCREASED CAPABILITY TO REPAIR CRITICAL SYSTEM COMPONENTS. IT WILL REDUCE THE PRESENT "FLOW GRIND" PROCESS OVER 6 HOURS PER UNIT THEREBY INCREASING CAPABILITY FROM 600 TO OVER 2000 PER YEAR.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

PROVIDE ABILITY TO PERFORM MAJOR AND MINOR REPAIR OF AIRCRAFT COMPONENTS MADE OF FIBERGLASS, GRAPHITE, BORON, AND KEVLAR FIBERS IN SUPPORT OF THE B1B, B52, KC135, A7, AND E3A WEAPON SYSTEMS.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THE INDUSTRIAL BLADE REPAIR CENTER SUPPORTS THE TF-30, TF-33, TF-41, J-57 AND J-79 ENGINES. PROJECT CONSOLIDATES OPERATIONS AND EQUIPMENT REPRESENTS STATE-OF-THE-ART TECHNOLOGY THAT REDUCES: FLOW TIMES, IN-PROCESS INVENTORY, PROCESS RELATED CONSUMPTION AND PIPELINE; AND IMPROVES: INVENTORY CONTROL, SCHEDULING, PRODUCTIVITY, WORKLOAD FLEXIBILITY, AND CENTRALIZED MANAGEMENT CONTROL.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

EQUIPMENT TO BE PROCURED IS TO PROVIDE ADDITIONAL CAPABILITY TO PERFORM PDM ON KC-135 AIRCRAFT.

SAC HAD A REQUIREMENT TO PERFORM FDM ON AN ADDITIONAL 32 KC-135 AIRCRAFT BEGINNING 1 OCT 88. DUE TO START UP PROBLEMS CONTRACTOR WAS UNABLE TO MEET DELIVERY SCHEDULE WHICH LEFT MAINTENANCE WITH A REQUIREMENT TO PROVIDE FDM FOR SAC KC-135 AIRCRAFT. OC-ALC ASSURED SAC THAT THE KC-135 AIRCRAFT WOULD RECEIVE TIMELY CRITICAL MAINTENANCE IN SUPPORT OF THEIR MISSION.



**A. BUDGET SUBMISSION**  
**FY 1990/91**

B. INDUSTRIAL FUND/ACTIVITY	GROUP/ACTIVITY	AMARC
DMIF. AFIF		

FY 1991

	ESTIMATED COST	TOTAL
1. Material	\$100.00	
2. Labor	75.00	
3. Overhead	25.00	
4. Profit	50.00	
Total	\$250.00	

B

AL

ASSET CAPITALIZATION PROGRAM JUSTIFICATION SHEET (DOLLARS IN THOUSANDS)										A. BUDGET SUBMISSION FY 1990/91	
B. INDUSTRIAL FUND/ACTIVITY GROUP/ACTIVITY DMIF, AFIF OC-ALC		C. ACP-1 LINE NO. & ITEM DESCRIPTION CATEGORY: 3 AUGER MICROSCOPE LINE NO. 28									
		FY 1988		FY 1989		FY 1990		FY 1991			
ELEMENTS OF COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST		
ACQUISITION COST										1	1000

NARRATIVE JUSTIFICATION:

THIS EQUIPMENT WILL BE USED FOR COMPOSITIONAL ANALYSIS OF VERY THIN SPECIMENS OF COMPOSITE STRUCTURES ON THE B-1B AIRCRAFT.



**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THIS INITIAL OUTFITTING EQUIPMENT (IOE) WILL BE INSTALLED IN THE GAS TURBINE ENGINE (GTE) FACILITY, BLDG 331, WHICH IS AN FY90 MILCON PROJECT FOR THE TECHNOLOGY REPAIR DIVISION (MAT) AT KELLY AFB. THIS FACILITY WILL BE RESPONSIBLE FOR THE ASSEMBLY, TEST, AND SHIPPING OF A VARIETY OF GAS TURBINE ENGINES, AIRCRAFT STARTERS, STARTER ACCESSORIES, AND AUXILIARY DRIVE GEARBOXES. THESE COMPONENTS SUPPORT WEAPON SYSTEMS INCLUDING THE F-15, F-16, B-52, C-130, C-5, C-141, A-10, F-4, AND F-111 AIRCRAFT. IOE IS REQUIRED TO SUPPORT THESE OVERHAUL PROCESSES AND TO PROVIDE NECESSARY ENVIRONMENTAL CONTROLS.

IF PROJECT IS NOT PROVIDED, THE CLEAN AIR ENVIRONMENT REQUIRED BY TECHNICAL ORDER 00-25-203 CANNOT BE ECONOMICALLY MET IN EXISTING OVERHAUL FACILITIES. WAIVERS TO PERMIT PRODUCTION UNDER SUBSTANDARD CONDITIONS WILL ULTIMATELY BE CANCELLED IF SOME POSITIVE EFFORT IS NOT TAKEN TO CORRECT THESE CONDITIONS.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

B. INDUSTRIAL FUND/ACTIVITY	C. ACP-1 LINE NO. & ITEM DESCRIPTION
GROUP/ACTIVITY	CATEGORY: 3 ALTER CORROSION CONTROL FACILITY
DMIF AFIF SA-ALC	LINE NO. 30

**NARRATIVE JUSTIFICATION:**

THIS SYSTEM IS INITIAL OUTFITTING EQUIPMENT (IOE) FOR THE FY91 MILCOON ALTER CORROSION CONTROL FACILITY. IT CONSISTS OF A MANLIFT SYSTEM WHICH IS COMPOSED OF SEVERAL MECHANIZED WORK PLATFORMS DESIGNED FOR FIT AND FUNCTION IN THE EXISTING C-5 ON KELLY AFB. THE SYSTEM IS A COMBINATION OF FLOOR MOUNTED AND OVER-HEAD MANLIFTS CAPABLE OF THREE DIMENSIONAL MOVEMENT AND "HANDS-ON" ACCESS TO THE C-5 AND B-52 AIRCRAFT. THE SYSTEM WILL SUPPORT THE PAINT AND CORROSION CONTROL WORKLOAD OF OVER FIFTY AIRCRAFT PER YEAR AND WILL BE UTILIZED ON A THREE SHIFT, SEVEN DAY PER WEEK OPERATION.

THE MECHANIZED MAINTENANCE SYSTEM WILL SUPPORT AN AVERAGE OF 193371 MAN-HOURS PER YEAR THROUGH FY96. WHEN THIS SYSTEM IS INSTALLED, AN ANNUAL SAVINGS OF OVER 11000 MAN-HOURS WILL BE REALIZED DUE TO IMPROVED EFFICIENCIES. THESE IMPROVEMENTS WILL ELIMINATE THE NEED FOR THE INPUT "REMOVE AND CLEAN" FUNCTIONS OF THE STATIC WORKSTANDS PRESENTLY BEING UTILIZED. THE IMPACT OF FAILURE TO ACQUIRE THIS SYSTEM WILL BE CONTINUED USAGE OF THE CURRENT INEFFICIENT SYSTEM AND NEGATION OF PROPOSED BENEFITS.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THIS EQUIPMENT IS INITIAL OUTFITTING EQUIPMENT FOR THE FY90 MILCOON ADD TO AND ALTER DEPOT HYDRAULIC FACILITY. THIS FACILITY IS REQUIRED TO ACCOMMODATE ADDITIONAL HYDRAULIC WORKLOAD ASSOCIATED WITH THE ACTIVATION OF THE B-1B AND INCREASES IN THE F-15 AND F-16 INVENTORIES.

THE EXISTING FACILITY IS OVERUTILIZED BECAUSE OF INCREASED WORKLOADS. THE EXISTING HYDRAULIC MANIFOLD, WHICH PROVIDES FUEL AND PRESSURE TO TEST STANDS, IS NOT CAPABLE OF OPERATING AT HIGH PRESSURE NOR WITH THE DIFFERENT HYDRAULIC FLUIDS REQUIRED FOR THE PL-1B SYSTEM.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

EQUIPMENT REQUIRED IS THREE SETS OF BRIDGE CRANE RAILS WITH THREE BRIDGE CRANES FOR THE C141 SIDE AND THREE SETS OF BRIDGE CRANE RAILS WITH 6 BRIDGE CRANES ON THE F15 WING REPAIR SIDE OF THE REPAIR FACILITY.

IMPACT IF NOT PROVIDED: IF BRIDGE CRANES ARE NOT PROVIDED CERTAIN COMPONENTS ON THE AIRCRAFT WILL NOT BE ABLE TO BE REMOVED. TO FULLY OPERATE A MOBILE CRANE HANDLING SYSTEM REQUIRES AN ADDITIONAL 20 FEET WIDTH PER BAY PLUS 5 FEET ADDITIONAL IN HEIGHT BEYOND THAT REQUIRED FOR A BRIDGE CRANE SYSTEM. IN ADDITION, THE ACCURACY WITH WHICH F15 WINGS HAVE TO BE PLACED IN WING JIG CAN ONLY BE ACCOMPLISHED WITH BRIDGE CRANES. THIS IS PROGRAMMED IN ACCORDANCE WITH BOEING, LAKE CHARLES, LA, DESIGN. SIZE AND COST PER FOOT ARE CRITICAL AND MUST BE KEPT AT A MINIMUM TO REMAIN WITHIN SCOPE OF THE APPROVED PROJECT. ADDING THE REQUIRED SQUARE FOOTAGE FOR MOBILE CRANE OPERATIONS IS NOT A VIABLE ALTERNATIVE.

ASSET CAPITALIZATION PROGRAM JUSTIFICATION SHEET  
(DOLLARS IN THOUSANDS)

A. BUDGET SUBMISSION  
FY 1990/91

B. INDUSTRIAL FUND/ACTIVITY  
DMIF, AFIF WR-ALC

C. ACP-1 LINE NO. & ITEM DESCRIPTION  
CATEGORY: 4 ODS 4101 UPGRADE  
LINE NO. 33

ELEMENTS OF COST	FY 1988			FY 1989			FY 1990			FY 1991		
	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST
ACQUISITION COST	1	310	310									
INSTALLATION	1	3	3									
ONE TIME LICENSE FEE	1	70	70									

NARRATIVE JUSTIFICATION:

TO ENHANCE THE CAPABILITIES OF ORGANIC PRINTED CIRCUIT (POC) BOARD MANUFACTURING. WITHOUT ENHANCEMENT, THE DESIGN OF CERTAIN PC BOARDS WOULD REQUIRE THE USE OF OUTSIDE CONTRACTORS, WHICH HAS PROVEN TO BE INADEQUATE BECAUSE OF EXCESSIVE HIGH COST, LONG LEAD TIME, AND POOR QUALITY. COMPUTERVISION DISTRIBUTED SYSTEM (CS+DS) HAS BEEN PURCHASED AND HAS ELIMINATED THE NEED TO CONTRACT FOR PC BOARD DESIGN. THE ITEM IS IN SERVICE IN THE AVIONICS TECHNOLOGY REPAIR CENTER.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THIS EQUIPMENT WILL BE USED FOR THE REPAIR OF BONDED COMPOSITE AIRCRAFT (FOR THE F-16 AND B-1B) COMPONENTS SUCH AS STABILIZATORS, FLAPS, RUDDERS AND DOORS.

THE F-16 AND OTHER ADVANCED AIRCRAFT HAVE MANY BONDED COMPOSITE COMPONENTS ON THEM AND AS THESE AIRCRAFT AGE MORE OF THESE COMPONENTS WILL REQUIRE REPAIR OR REBUILD. THE HAND LAY UP AND CUTTING OF THE COMPOSITE SKINS CONSUMES MOST OF THE LABOR HOURS AT PRESENT BECAUSE THE MATERIAL IS HARD TO HANDLE AND MUST BE LAID AND CUT PRECISELY. A SPECIALIZED MACHINE IS REQUIRED WITH A VACUUM TABLE TO HOLD THE MATERIAL AND ONE CONTROLLED CHISEL CUTTER WHICH QUICKLY AND ACCURATELY CUTS AND TRIMS THESE LAY UPS BEFORE BONDING. IF THIS MACHINE IS NOT PROCURED IN THE SCHEDULED TIME FRAME THE BONDING SHOP WILL NOT BE CAPABLE OF ACCOMPLISHING THE INCREASED REPAIR WORKLOAD. A BACKLOG WILL DEVELOP AND THIS WILL LEAD TO THE PROCUREMENT OF ADDITIONAL EXPENSIVE SPARE COMPONENTS TO SUPPORT THE AIRCRAFT.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

CURRENTLY CAD/CAM SYSTEMS IN VARIOUS AREAS ARE DESIGNED SEPARATELY WITH NO STANDARD METHODS AND LITTLE OR NO MEANS OF EXCHANGING DATA. THIS HAS RESULTED IN REDUNDANT SYSTEM COST, DESIGN AND STORAGE AND THE INABILITY TO PROPERLY COORDINATE ENGINEERING AND FACILITY PROJECTS.

THIS SYSTEM WILL INTEGRATE THE EXISTING CAD/CAM SYSTEMS, AS WELL AS, PERFORM ADDITIONAL WORKLOAD. THE SYSTEM WILL COMBINE CAD ITEMS INTO CONSOLIDATED PACKAGES AND WILL PROVIDE FOR CAD STANDARDS, COMMON METHODOLOGIES, AND A SINGLE CAD ACCESS INTERFACE FOR SM-ALC/MA.

ASSET CAPITALIZATION PROGRAM JUSTIFICATION SHEET (DOLLARS IN THOUSANDS)										A. BUDGET SUBMISSION	
B. INDUSTRIAL FUND/ACTIVITY DMIF, AFIF ALL ALC'S										FY 1990/91	
C. ACP-1 LINE NO. & ITEM DESCRIPTION CATEGORY: 5 EQUIPMENT ACQUISITION LINE NO. 36											
										FY 1990	
										FY 1991	
ELEMENTS OF COST										QUANT.	TOTAL COST
ACQUISITION COST										342	25571

# NARRATIVE JUSTIFICATION:

THESE PROJECTS ARE PART OF AN ONGOING EFFORT BY AFLC TO MODERNIZE AND MAINTAIN THE ENORMOUS INVENTORY OF INDUSTRIAL EQUIPMENT REQUIRED TO ACCOMPLISH DEPOT MAINTENANCE ACTIVITIES AT THE FIVE AIR LOGISTICS CENTERS (ALC'S) AND THE AEROSPACE GUIDANCE AND METROLOGY CENTER (AGMC). THE INVENTORY OF EQUIPMENT CONSISTS OF OVER 60 THOUSAND ITEMS WITH AN ESTIMATED VALUE OF OVER \$2 BILLION. APPROXIMATELY FORTY (40%) OF THESE EQUIPMENT REQUIREMENTS ARE TO REPLACE WORN OUT AND OBSOLETE EQUIPMENT WHICH IS ESSENTIAL TO SUPPORT EXISTING WORKLOADS. THE REMAINING REQUIREMENTS ARE NECESSARY DUE TO CHANGES IN WORKLOAD, TECHNOLOGY, ETC. PLANNED INVESTMENTS INCLUDE EQUIPMENT FOR TESTING, INSPECTION, CLEANING, COATING, BONDING, GRINDING AND FORMING. BENEFITS TO BE DERIVED FROM THESE INVESTMENTS MAY BE CATEGORIZED INTO AT LEAST FIVE MAJOR AREAS I.E. (1) SUPPORT NEW/MODIFIED REPAIR PROCESSES, (2) ENHANCE QUALITY AND RELIABILITY, (3) IMPROVE HEALTH, SAFETY, AND ENVIRONMENTAL CONDITIONS, (4) SHORTEN REPAIR CYCLES AND REDUCE SPARES AND (5) PREVENT FUTURE COSTS AND INCREASE PRODUCTIVITY.



ASSET CAPITALIZATION PROGRAM JUSTIFICATION SHEET (DOLLARS IN THOUSANDS)										A. BUDGET SUBMISSION FY 1990/91	
B. INDUSTRIAL FUND/ACTIVITY GROUP/ACTIVITY LAUNDRY & DRY CLEANING, AFIF		C. ACP-1 LINE NO. & ITEM DESCRIPTION CATEGORY: 5 COMMERCIAL LAUNDRY & DRY CLEANING EQUIPMENT LINE NO. 37									
		FY 1988		FY 1989		FY 1990		FY 1991			
ELEMENTS OF COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST
HIGH CAPACITY CONTINUOUS BATCH WASHER/DRYER SYSTEMS (OBM)	1	400	400								
THERMAL FLUID FLATWORK IRONER SYSTEMS (TFFI)					1	250			250		
CONTINUOUS BATCH WASHER/DRYER SYSTEMS (OBM)					1	250			250		
DRY CLEANING SYSTEMS							1	400	400		

NARRATIVE JUSTIFICATION: SEE NEXT PAGE.

ASSET CAPITALIZATION PROGRAM JUSTIFICATION SHEET (DOLLARS IN THOUSANDS)										A. BUDGET SUBMISSION FY 1990/91									
B. INDUSTRIAL FUND/ACTIVITY GROUP/ACTIVITY				C. ACP-1 LINE NO. & ITEM DESCRIPTION CATEGORY: 5 VEHICLE PURCHASES LINE NO. 38															
SARMA				FY 1988				FY 1989				FY 1990				FY 1991			
ELEMENTS OF COST		QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST			
GENERAL PURPOSE VEHICLES		53	9.2	495	67	9.3	625												
SPECIAL PURCHASE VEHICLES		28	19.9	529	37	19.2	710												
BASE MAINTENANCE VEHICLES		13	21.8	275	18	30.8	540												
MATERIAL HANDLING VEHICLES		1	15.0	15	12	15.0	180												

# NARRATIVE JUSTIFICATION:

THE TOTAL FUNDS REQUIRED FOR VEHICLES IN FY89 IS \$5.5M, BASED ON THE STANDARD AIR FORCE LIFE CYCLE VEHICLE REPLACEMENT CRITERIA FOR OUR VEHICLES. BECAUSE OF FUNDING CONSTRAINTS, SARMA HAS ONLY BEEN ABLE TO FUND ANNUALLY, 20-25% OF VEHICLES CODED FOR REPLACEMENT. AT PRESENT, SOME OF OUR VEHICLES ARE UP TO 18 YEARS OLD AND NEED IMMEDIATE REPLACEMENT. THESE VEHICLES ARE COSTLY TO MAINTAIN AND PARTS ARE NOT READILY AVAILABLE. THE UNDER-FUNDING FOR VEHICLE PURCHASES IS COSTING SARMA ABOUT \$1M A YEAR ON LEASE TO SATISFY VEHICLE SHORTAGES AND PEAK WORKLOAD REQUIREMENTS. SARMA CURRENTLY HAS 1032 VEHICLE AUTHORIZATIONS VALUED AT \$16,641,665. ON HAND ASSETS (967 VEHICLES) ARE VALUED AT \$9,916,379. CURRENT MARKET REPLACEMENT COST FOR THE 967 VEHICLES IS \$14,112,314. THE AVERAGE VEHICLE LIFE EXPECTANCY FOR THE FLEET BASED ON AIR FORCE REPLACEMENT CRITERIA IS 8-10 YEARS. BASED ON THE CURRENT AIR FORCE LIMITATIONS LEVEL (1,500,000), IT WILL TAKE APPROXIMATELY 11 YEARS TO REPLACE OUR ALREADY OVERAGE FLEET. LIMITATIONS BELOW THE \$5.5M WILL REPRESENT A SHORTFALL IN OUR VEHICLE REPLACEMENT.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

AO2-1 LINE NO. & ITEM DESCRIPTION  
CATEGORY: 5 ENVIRONMENTAL EQUIPMENT  
LINE NO. 39

THE SAN ANTONIO REAL PROPERTY MAINTENANCE AGENCY CONTINUES TO INCREASE ITS CAPABILITIES TO SUPPORT NEW AND EXPANDED INITIATIVES TO SUPPORT DOD MISSION ESSENTIAL REQUIREMENTS AT REDUCED PRICES. THESE EXPANDED TECHNIQUES INCLUDE ASBESTOS REMOVAL, NON-DESTRUCTIVE SEWER/INDUSTRIAL WASTE LINES ASSESSMENTS AND REPAIR (REVEAL/RESEAL), AND PROVIDE PORTABLE CHILLERS TO MISSION ESSENTIAL FACILITIES. ASBESTOS REMOVAL TEAMS: ONE DECONTAMINATION TRAILER WAS PURCHASED IN FY87. SARRMA HAS BEEN TASKED WITH THE REQUIREMENT TO PROVIDE EQUIPMENT FOR 30 ADDITIONAL ASBESTOS PERSONNEL EACH YEAR IN FY88 AND 89. THIS INCLUDES DECONTAMINATION TRAILERS, VACUUM PUMPS, RESPIRATORS, PORTABLE SHOWERS, PROTECTION SUITE, ETC. ADDITIONAL TRAILER UNITS: ADDITIONAL TRAILER UNITS, COLOR CAMERAS, UNDERWATER EXPLOSIVE-PROOF LIGHT-HEAD ASSEMBLIES ARE REQUIRED TO MEET THE DEMAND FOR OUR SERVICES, WHICH IS A SAVINGS OF HALF THE CONTRACTED OUT COST. PORTABLE CHILLERS: SARRMA REQUIREMENTS CONTINUE TO INCREASE TO PROVIDE A CONTROLLED ENVIRONMENT TO FACILITIES TO INSTALLATION MISSIONS.

**I A. BUDGET SUBMISSION**  
**I FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THIS SYSTEM WILL PROVIDE THE SAN ANTONIO REAL PROPERTY MAINTENANCE AGENCY WITH A TECHNOLOGICALLY ADVANCED TELECOMMUNICATIONS SYSTEM WITH SUSTAINING RELIABILITY WHICH WILL REPLACE THE CURRENT SYSTEM THAT IS OBSOLETE AND HAS PROVED UNRELIABLE. THE ACQUISITION OF A NEW SYSTEM WILL PROVIDE A RELIABLE COST EFFECTIVE AND EFFICIENT METHOD FOR PERSONNEL TO CONDUCT DAILY OPERATIONS. AN OPTIMUM SUPPORT TELECOMMUNICATION SYSTEM WILL VASTLY IMPROVE INTERNAL AND EXTERNAL OPERATIONS RESULTING IN A SIGNIFICANT COST SAVINGS.

**SAVINGS ESTIMATED AT \$173,000.**

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THE MINOR CONSTRUCTION PROGRAM ALLOWS FLEXIBILITY IN ADAPTING TO NEW AND CHANGING WORLDS. PROJECTS ARE ON A SMALL SCALE AND ARE ACCOMPLISHED WITHIN AN IMMEDIATE TIMEFRAME. THESE PROJECTS SUPPORT THE AIR LOGISTICS CENTERS MISSION REQUIREMENTS, CORRECT SAFETY AND ENVIRONMENTAL PROBLEMS, AS WELL AS, IMPROVE PRODUCTIVITY THROUGH QUALITY OF LIFE IMPROVEMENT PROJECTS AND OFFICE/WORK SPACE REORGANIZATIONS.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

FY 1988: THE AFIF LAUNDRY AND DRY CLEANING PLANT, CAMP KINSEY, OKINAWA, JAPAN IS LOCATED 18 MILES FROM KADENA AB. IN A EFFORT TO MEET RETAIL CUSTOMER DEMANDS AND IMPROVE SERVICES TO KADENA AB, TWO PICK-UP POINT LOCATIONS, ONE NEAR THE PX/COMMISSARY COMPLEX AND ONE IN THE BAQ/BOQ TRANSIENT HOUSING AREA, WERE PROVIDED BY THE BASE. DESIGN WORK HAS BEEN COMPLETED AND CONTRACTS AWARDED FOR THE RENOVATION OF THESE LOCATIONS INTO LAUNDRY AND DRY CLEANING RETAIL STORE PICK-UP POINTS.

FY 1989: TWO RETAIL SALES STORES WILL BE CONSTRUCTED AT LORING AFB, MAINE AND INCIRLIK AB, TURKEY. THE LAUNDRY PLANTS AT THESE LOCATIONS ARE LOCATED AWAY FROM THE BASE POPULATION CENTERS. IN ADDITION TO PROVIDING BETTER SERVICE TO OUR CUSTOMERS, THESE STORES WILL ALLEVIATE WORK AREA ENCROACHMENTS BY SALES AREA WHICH NEGATIVELY IMPACT PRODUCTION AND WORKER MORALE. THE CASH SALES FROM THESE STORES ALSO HELPS TO STABILIZE O&M PRICES BY COVERING A LARGER SHARE OF THE FIXED OPERATING COSTS.

FY 1991: CONSTRUCTION OF A RETAIL SALES STORE AT EGLIN AFB, FLORIDA. THIS STORE WILL MEET INCREASING CUSTOMER DEMANDS, IMPROVE SERVICE AND FREE UP PRODUCTION WORKSPACE CURRENTLY OCCUPIED BY A SALES STORE.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

B. INDUSTRIAL FUND/ACTIVITY			C. ACP-1 LINE NO. & ITEM DESCRIPTION											
DMIF, AFIF			CATEGORY: 7 DEPOT MAINTENANCE MANAGEMENT INFORMATION SYSTEM (DMIS)											
ALL ALC'S			LINE NO. 43											
FY 1988			FY 1989			FY 1990			FY 1991					
ELEMENTS OF COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST		
ACQUISITION COST														
HARDWARE AND SOFTWARE	1		22026	1		22900	1		28144	1		32459		

**NARRATIVE JUSTIFICATION:**

DEPOT MAINTENANCE MANAGEMENT INFORMATION SYSTEM (DMIS) IS A SYSTEM MODERNIZATION EFFORT TO REPLACE 33 CURRENT SYSTEMS WITH A MANUFACTURING RESOURCES PLANNING SYSTEM (MRP II). THIS SYSTEM WILL PROVIDE A REAL TIME DATA BASE, VISIBILITY OF SHOP FLOOR ACTIVITY STATUS, ABILITY TO FORECAST MAINTENANCE, ABILITY TO MEET MATERIAL MANAGEMENT'S REQUIREMENTS IN TERMS OF PARTS, TOOLS AND EQUIPMENT AVAILABILITY, AND MANPOWER. THE CONCEPT FROM WHICH THIS SYSTEM IS BASED IN NOT TO INDUCT AN ASSET UNLESS ALL RESOURCES ARE AVAILABLE TO PRODUCE THE PRODUCT WITHIN A SPECIFIED PERIOD. THIS SYSTEM WILL PROVIDE MAINTENANCE 1980'S INFORMATION VERSUS 1960 BATCH ORIENTED SYSTEMS.





**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

AN UPGRADE TO THE CURRENT COMPUTER HARDWARE FOR THE MOSS SYSTEM AT ALC AGMC IS REQUIRED TO SATISFY PLANNED AND PROJECTED GROWTH IN USERS, SYSTEM APPLICATIONS, AND DATA STORAGE. THE MOSS IS NETWORKED COMMAND WIDE TO ENHANCE TRANSFER OF DATA AND DECISION SUPPORT INFORMATION TO HQ AFLC AND BETWEEN CENTERS. TO IMPROVE DECISION QUALITY AND SUPPORT, THE MOSS ALLOWS ALC MANAGERS AND STAFF PERSONNEL TO PERFORM ROUTINE AND/OR DETAILED ANALYSIS, RAPID ELECTRONIC TRANSFER, AND CONSOLIDATE/ SUMMARIZE DATA PROVIDED BY THE EXISTING COMMAND DATA SYSTEM STRUCTURE, THE NEW DMMIS SYSTEM AND DATA FORM SYSTEMS NOT BEING REPLACED BY DMMIS. THE MOSS PROVIDES FOR IMPROVED PRODUCTIVITY IN THE MAINTENANCE WORK FORCE BY REDUCING TIME SPENT ON ROUTINE ANALYSIS AND DATA COLLECTION; BY DECREASING RESPONSE TIME THROUGH ACCESS AND ELECTRONIC TRANSFERS OF QUALITY DATA FOR QUALITY DECISION MAKING; AND BY INCREASING ORGANIZATIONAL STABILITY, EFFECTIVENESS, AND EFFICIENCY THROUGH SHARING INFORMATION. THE CENTER VERSION OF MOSS IS NOT PART OF THE DMMIS BASELINE. ALSO, THE MAINTENANCE HQ VERSION OF MOSS WHICH IS PART OF THE DMMIS BASELINE) IS NOT FUNDED THROUGH THE ASSET CAPITALIZATION PROGRAM (I.E. USES OTHER PROCUREMENT, AIR FORCE (3080) APPROPRIATED FUNDS).

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THE MAINTENANCE FUNCTION IS CURRENTLY SUPPORTING ITS ADP INFRASTRUCTURE WITH A FIBER OPTICS INFORMATION SYSTEM NETWORK (ISN) LEASED FROM AT&T. THE LEASE APPROACH WAS TWO FOLD: ONE WAS TO TEST THE NETWORK FOR OPERABILITY AND THE OTHER WAS TO PROVIDE INTERIM CONNECTIVITY UNTIL A COMMAND NETWORK WAS INSTALLED. CURRENTLY THE FIBER NETWORK IS OPERABLE AND THE COMMAND NETWORK WILL NOT PROVIDE LOCAL AND TEMPEST ADP CONNECTIVITY AS ORIGINALLY PLANNED. THEREFORE, THE LEASED FIBER NETWORK HAS FOR SEVERAL REASONS BECOME A PERMANENT FIX AND THE NEED TO PURCHASE JUSTIFIABLE.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

THE AFLC DEPOT MAINTENANCE MANAGEMENT SYSTEMS LABORATORY (I.E., OGDAN ALC/MMO) IS RESPONSIBLE FOR PERFORMING STUDIES, TESTS AND PROTOTYPES RELATED TO AUTOMATED INFORMATION SYSTEM (AIS) CONCEPTS. THEY NEED VAX HARDWARE TO SUPPORT REQUIREMENTS FOR MISSION ENHANCEMENT TO THE AEROSPACE MAINTENANCE AND REGENERATION CENTER'S DIGITAL EQUIPMENT CORPORATION (DEC) HOSTED INTERNAL MANAGEMENT SYSTEM; THE HQ AFLC/MMA CONTRACT DEPOT MAINTENANCE MANAGEMENT SYSTEM (G072D) AND THE GOVERNMENT-FURNISHED MATERIAL TRANSACTION REPORTING SYSTEM (G009). THESE SYSTEM ENHANCEMENTS ARE NEEDED TO STAY IN LINE WITH LOGISTICS MANAGEMENT SYSTEMS (LMS) MODERNIZATION PROGRAMS.

**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

**MOST PRODUCTION SHOPS CONTAIN ONE OR TWO "EXPERTS" IN THE PARTICULAR REPAIR PROCESS IN WHICH EACH SHOP IS ENGAGED. THIS EXPERTISE IS LOST AND MUST BE REGAINED EACH TIME ONE OF THESE EXPERTS RETIRES OR IS TRANSFERRED. THIS RESULTS IN LOST PRODUCTIVITY AND JOB CONFIDENCE.**

THIS SYSTEM WILL PROVIDE PERMANENT EXPERT CAPABILITY. THIS CAPABILITY WILL BE PROVIDED THROUGH ONGOING CONTRACTING OF ARTIFICIAL INTELLIGENCE (EXPERT SYSTEMS) DEVELOPMENT. THESE SYSTEMS WILL ALLOW ALL RELEVANT EMPLOYEES IN A GIVEN AREA FULL AND CONSTANT ACCESS TO THE RESIDENT EXPERTISE WITHOUT INCURRING THE TIME OF THE MOST VALUABLE WORKERS OR GOING WITHOUT THE EXPERT KNOWLEDGE WHEN THE EXPERT IS UNAVAILABLE.

ASSET CAPITALIZATION PROGRAM JUSTIFICATION SHEET (DOLLARS IN THOUSANDS)										A. BUDGET SUBMISSION FY 1990/91			
B. INDUSTRIAL FUND/ACTIVITY GROUP/ACTIVITY DMIF, AFIF SM-ALC		C. ACP-1 LINE NO. & ITEM DESCRIPTION CATEGORY: 8 MATERIAL CONTROL INTEGRATION LINE NO. 49											
		FY 1988			FY 1989			FY 1990			FY 1991		
ELEMENTS OF COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST	QUANT.	UNIT COST	TOTAL COST	
ACQUISITION COST													
HARDWARE							1	900	900	1	900	900	
SOFTWARE							1	100	100	1	100	100	
					</								

**NARRATIVE JUSTIFICATION:**

CURRENT MECHANIZED MATERIAL HANDLING SYSTEMS AT SM-ALC WERE DESIGNATED WITH NO STANDARDS AND NO MEANS OF EXCHANGING DATA. THIS HAS RESULTED IN THE INABILITY TO COORDINATE MATERIAL TRANSACTIONS WITHIN THE DIRECTORATE.

THIS PROJECT INCLUDES SYSTEMS HARDWARE AND SOFTWARE. IT WILL CREATE A COMMON USER INTERFACE, PROVIDE STANDARDIZED DATA ELEMENTS AND TERMINOLOGY AND ALLOW EXCHANGE OF INTERDIVISIONAL DATA.

FAILURE TO PROCEED THIS SYSTEM WILL CAUSE FURTHER REDUNDANT DEVELOPMENT, INEFFICIENT INTER-DIVISION OPERATIONS AND EXTREME DIFFICULTY IN IMPLEMENTING THE DETROT MAINTENANCE MANAGEMENT INFORMATION SYSTEM (DMMIS).



**A. BUDGET SUBMISSION**  
**FY 1990/91**

[illegible]

**NARRATIVE JUSTIFICATION:**

SARFMA HAS AN INCREASED WORKLOAD TO SERVICE NOT ONLY DOD INSTALLATIONS IN SAN ANTONIO, BUT ALSO DOD ACTIVITIES IN THE SURROUNDING AREAS.

**NEW PROGRAMS IN O&M, (AIR FORCE) APPROPRIATION**  
(Dollars in Thousands)

FY 1990      FY 1991

\$2,500      \$3,000

Identification and Description

a. Mission Planning System (PE 28006F)

Provides resources to support development and acquisition of Air Force automated mission planning systems for tactical, strategic, airlift and SOF forces; specifically to provide automated flight planning, intelligence, weather, weapons, electronic combat and navigation information to aircraft and associated aircraft/weapon data systems cartridge units. Provides ground and aircraft support for all associated command and control systems.

b. JT Tactical Communications Program (PE 28010F)      \$300      \$600

Combat Communications Access for Support Elements (CCASE) provides communications access to wartime functional elements. CCASE will extend the Defense Data Network (DDN) into the tactical theater. Funds Air Training Command training for new operators/maintainers of CCASE equipments installed in the United States Air Force Europe (USAFE).

c. C-17 Delivery (PE 41216F)      \$0      \$385

Reflects delivery of first two C-17s during the 4th quarter of FY 91 (+123 F/Hs).

d. C-17 Aircrew Training System (PE 41897F)      \$0      \$1,641

The C-17 ATS is a total contracted training system that provides state-of-the-art training technologies, management, maintenance, and logistics support for aircrew training devices. Funds start-up costs for contractor services for C-17 ATS prior to C-17 IOC in FY 92.



NEW PROGRAMS IN O&M. (AIR FORCE) APPROPRIATION  
(Dollars in Thousands)

e.	C-17 Interim Contractor Support (ICS) (PE 72207F)	\$ 0	\$6,828
The C-17 ICS is to provide intermediate and depot level maintenance support.			
f.	PACER FRONTIER (PE 12310F)	\$4,853	\$8,140
	(PE 35110F)	\$2,200	\$2,200
	(PE 71113F)	\$ 0	\$720
	(PE 87711F)	\$ 57	\$ 58

PACER FRONTIER is a tri-command (AFLC, AFSC, AFSPACECOM) strategy to normalize roles and responsibilities for space and warning systems through implementation of a support strategy for both hardware and software managed in a Centralized Integrated Support Facility (CSIF) located in Colorado Springs. This is an initial Air Force effort to develop a total support infrastructure for space programs.

g. Centennial (PE 35142F)

This is a classified program. Details will be granted on a need-to-know basis only.

h.	DCS Mediterranean Improvement Program (DMIP) (PE 33126F)	\$15,103	\$14,100
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The Defense Communications Agency (DCA) initiates DMIP in FY 90. DMIP provides for the replacement of the antiquated, insecure land based communications network in the European Theater. The first phase of the program covers new terrestrial and commercial satellite leases in Turkey. Long haul communications funding must be increased to cover the Air Force's share of the DMIP requirement. If funding is not received, the Air Force will not be able to reimburse DCA for DMIP costs incurred. Failure to implement the necessary improvements in southern Europe will result in continued maintenance of communications system which is inadequate for peacetime requirements and unsurvivable under wartime conditions.

NEW PROGRAMS IN O&M, (AIR FORCE) APPROPRIATION  
(Dollars in Thousands)

i. Real Time Automated Personnel System (RAPIDS) (PE 91220F)      \$2,499      \$2,499

The program was established to improve the timeliness of updating information in the Defense Enrollment Eligibility Reporting System (DEERS) which was the result of a congressional mandate in 1974. RAPIDS provides updates and verifications of records instantaneously, provides better control in the issuance of ID cards, and greatly improves retrieval of cards through electronic cancellation of ineligible, lost or stolen cards. The Navy Military Personnel Command is Executive Agent for the RAPIDS program.

j. SOF Aircrew Training System (PE B0011F)      \$1,003      \$1,508

The SOF ATS will contractually integrate the ground based family of training devices to support the SOF fleet. Resources fund start costs for the contract.

k. Military Personnel Conversions (Various P.E.s)      \$ 37,200      \$ 21,200

Various conversions of military personnel to civilian personnel or contract under either an A-76 or a military-to-civilian conversion decision.

l. Classified Programs Interim Contractor Support (PE 72207F)      \$42,100      \$40,800

Supports requirements for depot intermediate and organizational levels of maintenance support.

m. Pacific Distribution System (PDS) (PE 41314F)      \$ 0      \$ 0

Beginning in FY 90 six C-12F aircraft will transfer from their Operational Support Airlift (OSA) function to operate in a logistics support role in the Pacific Theater. PPS is a readiness-sustainability program to provide responsive and timely redistribution of adequate quantities of aircraft spares among tactical employment bases for the purpose of wartime increased sorties generation. The program is not additive to the Air Force O&M baseline since the aircraft are currently funded in the OSA flying hour program.

DEPARTMENT OF THE AIR FORCE  
FY 1990/1991 PRESIDENT'S BUDGET  
OPERATION AND SUPPORT COSTS AND PROGRAM DATA

TO BE SUBMITTED SEPARATELY

DEPARTMENT OF THE AIR FORCE  
FY 1990/1991 PRESIDENT'S BUDGET  
SUMMARY OF OVERSEAS FUNDING

TO BE SUBMITTED SEPARATELY

## FY 20

[illegible]

1/ I provide line item detail for both FY 1990 and FY 1991. I provide appropriation level detail for FY 1992 through FY 1994.

## FY 91

FY 91

2023

FY 92

[illegible]

**1/1 Provide line item detail for both FY 1990 and FY 1991. Provide appropriation level detail for FY 1992 through FY 1994.**

## FY 93

[illegible]

**1/1 Provide line item detail for both FY 1990 and FY 1991. Provide appropriation level detail for FY 1992 through FY 1994.**



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[illegible]

1/1 Provide line item detail for both FY 1990 and FY 1991. Provide appropriation level detail for FY 1992 through FY 1994.

DEPARTMENT OF THE AIR FORCE  
FY 1990/1991 CLAIMS  
(\$ IN THOUSANDS)

CLAIMS UNDER:	FY 1988	FY 1989	FY 1990	FY 1991
Military Personnel/Civilian Employees Claims Act	58,228	59,280	59,753	60,231
Federal Tort Claims Act	1,214	1,236	1,246	1,256
Foreign Claims Act/International Agreement Claims Act	689	697	703	709
Military Claims Act	2,141	2,181	2,199	2,216
Admiralty Statutes	2	2	2	2
Use of Government Property Claims Act	6	6	6	6
Miscellaneous (includes Claims of U.S. Postal Service	6	6	6	6
Total Claims Approved for Payment	62,286	63,408	63,915	64,426

DEPARTMENT OF THE AIR FORCE  
FY 1990/1991 CLAIMS  
(\$ IN THOUSANDS)

Major Force Program	FY 1989			FY 1990 Estimate	FY 1991 Estimate	Change FY 89-90	Change FY 90-91
	Pres Budget	Approp	Current Estimate				
I	7,456	7,456	7,431	7,710	7,947	279	237
II	17,266	17,266	17,211	18,166	18,724	955	558
III	175	175	175	181	186	6	5
IV	3,666	3,666	3,666	3,791	3,907	125	116
VII	3,784	3,784	3,784	3,914	4,134	130	220
VIII	3,106	3,106	3,117	3,212	3,310	95	98
IX	5,547	5,547	5,547	5,556	5,632	9	76
Total	41,000	41,000	40,931	42,530	43,840	1,599	1,310

WORKLOAD INDICATORS

Number of Claims	63,408	63,915	64,426	507	511
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NOTE: 1. The following specific claims are paid out of the GAO "Judgment Fund":

a. The full amount of all individual claims paid under the Federal Tort Claims Act if these claims exceed \$2,500.

b. The amount of each foreign claim over \$100,000.

2. FY 1988 has not been included in this exhibit since Claims funding in FY 1988 was a DOD not an Air Force appropriation.